



MAGIS M DYNAMIC THERMAL DATA

Heat Pumps
air-water block
reversible with inverter
single and three-phase



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|----------|--|
| 1 | MAGIS M4 “POWER” AND “COP” IN HEATING |
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• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 25 °C | | | | | | | | |
| -25 | (-26) | 1,90 | 1,23 | 2,05 | 1,07 | 0,68 | 1,18 | 1,78 | 1,80 | 1,74 |
| -20 | (-21) | 2,82 | 1,73 | 3,09 | 1,15 | 0,69 | 1,31 | 2,45 | 2,50 | 2,36 |
| -15 | (-16) | 3,26 | 1,68 | 3,60 | 1,03 | 0,52 | 1,19 | 3,17 | 3,25 | 3,03 |
| -10 | (-11) | 3,73 | 1,65 | 4,17 | 1,04 | 0,45 | 1,22 | 3,60 | 3,70 | 3,40 |
| -7 | (-8) | 4,59 | 1,16 | 4,92 | 1,19 | 0,29 | 1,33 | 3,85 | 4,01 | 3,69 |
| -5 | (-6) | 4,49 | 1,36 | 4,99 | 1,05 | 0,31 | 1,24 | 4,26 | 4,38 | 4,03 |
| 0 | (-1) | 4,99 | 1,45 | 5,41 | 0,96 | 0,27 | 1,07 | 5,19 | 5,37 | 5,06 |
| 5 | (4) | 5,48 | 1,97 | 5,99 | 0,91 | 0,31 | 1,03 | 6,04 | 6,28 | 5,83 |
| 7 | (6) | 4,60 | 2,35 | 6,58 | 0,66 | 0,32 | 0,99 | 6,98 | 7,28 | 6,67 |
| 10 | (9) | 5,73 | 1,95 | 6,37 | 0,80 | 0,26 | 0,95 | 7,13 | 7,46 | 6,68 |
| 15 | (14) | 5,48 | 2,36 | 6,03 | 0,75 | 0,31 | 0,90 | 7,32 | 7,72 | 6,71 |
| 20 | (19) | 5,36 | 2,64 | 5,86 | 0,67 | 0,31 | 0,81 | 7,96 | 8,41 | 7,24 |
| 25 | (24) | 5,08 | 3,14 | 5,70 | 0,58 | 0,34 | 0,72 | 8,75 | 9,25 | 7,91 |
| 30 | (29) | 5,18 | 3,32 | 5,78 | 0,55 | 0,34 | 0,69 | 9,37 | 9,90 | 8,41 |
| 35 | (34) | 5,29 | 3,92 | 5,85 | 0,53 | 0,37 | 0,65 | 10,10 | 10,6 | 8,96 |
| d.b. | (w.b.) | Water flow temperature 30 °C | | | | | | | | |
| -25 | (-26) | 1,65 | 1,12 | 1,80 | 1,08 | 0,72 | 1,22 | 1,52 | 1,55 | 1,48 |
| -20 | (-21) | 2,57 | 1,53 | 2,83 | 1,38 | 0,80 | 1,56 | 1,86 | 1,90 | 1,82 |
| -15 | (-16) | 3,07 | 1,65 | 3,41 | 1,06 | 0,56 | 1,22 | 2,88 | 2,95 | 2,78 |
| -10 | (-11) | 4,00 | 1,75 | 4,49 | 1,18 | 0,50 | 1,38 | 3,40 | 3,50 | 3,25 |
| -7 | (-8) | 4,63 | 1,18 | 5,14 | 1,27 | 0,31 | 1,46 | 3,65 | 3,76 | 3,52 |
| -5 | (-6) | 4,62 | 1,36 | 5,18 | 1,19 | 0,34 | 1,39 | 3,86 | 3,98 | 3,72 |
| 0 | (-1) | 4,80 | 1,51 | 5,27 | 1,08 | 0,33 | 1,21 | 4,46 | 4,61 | 4,34 |
| 5 | (4) | 5,19 | 1,99 | 5,75 | 1,03 | 0,38 | 1,18 | 5,03 | 5,23 | 4,85 |
| 7 | (6) | 4,36 | 2,34 | 6,22 | 0,77 | 0,40 | 1,15 | 5,65 | 5,89 | 5,40 |
| 10 | (9) | 5,28 | 1,77 | 6,03 | 0,98 | 0,31 | 1,17 | 5,41 | 5,67 | 5,16 |
| 15 | (14) | 5,06 | 2,25 | 5,72 | 0,99 | 0,41 | 1,20 | 5,13 | 5,42 | 4,78 |
| 20 | (19) | 5,11 | 2,81 | 5,74 | 0,82 | 0,43 | 1,00 | 6,22 | 6,58 | 5,75 |
| 25 | (24) | 5,24 | 3,40 | 5,77 | 0,67 | 0,41 | 0,80 | 7,85 | 8,30 | 7,21 |
| 30 | (29) | 5,33 | 3,59 | 5,84 | 0,65 | 0,41 | 0,78 | 8,20 | 8,68 | 7,48 |
| 35 | (34) | 5,44 | 4,01 | 5,90 | 0,63 | 0,44 | 0,76 | 8,57 | 9,08 | 7,77 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | | | | | | | |
| -25 | (-26) | 1,56 | 1,18 | 1,71 | 1,19 | 0,89 | 1,32 | 1,31 | 1,33 | 1,29 |
| -20 | (-21) | 2,20 | 1,42 | 2,44 | 1,49 | 0,94 | 1,70 | 1,48 | 1,51 | 1,43 |
| -15 | (-16) | 2,90 | 1,55 | 3,25 | 1,17 | 0,61 | 1,36 | 2,48 | 2,54 | 2,39 |
| -10 | (-11) | 3,82 | 1,71 | 4,34 | 1,30 | 0,56 | 1,52 | 2,95 | 3,04 | 2,85 |
| -7 | (-8) | 4,70 | 1,25 | 4,99 | 1,52 | 0,37 | 1,60 | 3,10 | 3,34 | 3,11 |
| -5 | (-6) | 4,37 | 1,42 | 5,02 | 1,28 | 0,40 | 1,53 | 3,41 | 3,51 | 3,27 |
| 0 | (-1) | 4,60 | 1,42 | 5,10 | 1,20 | 0,36 | 1,36 | 3,85 | 3,98 | 3,74 |
| 5 | (4) | 5,08 | 1,92 | 5,68 | 1,13 | 0,41 | 1,31 | 4,49 | 4,66 | 4,33 |
| 7 | (6) | 4,20 | 2,31 | 6,26 | 0,82 | 0,43 | 1,26 | 5,10 | 5,39 | 4,96 |
| 10 | (9) | 5,36 | 1,92 | 6,07 | 1,08 | 0,37 | 1,26 | 4,97 | 5,21 | 4,82 |
| 15 | (14) | 5,14 | 2,25 | 5,75 | 1,06 | 0,44 | 1,25 | 4,84 | 5,12 | 4,59 |
| 20 | (19) | 5,09 | 3,01 | 5,67 | 0,93 | 0,52 | 1,11 | 5,46 | 5,78 | 5,13 |
| 25 | (24) | 5,12 | 3,52 | 5,60 | 0,82 | 0,53 | 0,96 | 6,27 | 6,63 | 5,85 |
| 30 | (29) | 5,32 | 3,79 | 5,78 | 0,76 | 0,51 | 0,89 | 7,01 | 7,43 | 6,51 |
| 35 | (34) | 5,54 | 3,91 | 5,97 | 0,70 | 0,47 | 0,82 | 7,89 | 8,36 | 7,27 |

MAGIS M4

1.1 MAGIS M4 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 40 °C | | | | | | | | |
| -25 | (-26) | 1,42 | 1,09 | 1,53 | 1,20 | 0,90 | 1,30 | 1,19 | 1,20 | 1,18 |
| -20 | (-21) | 1,98 | 1,39 | 2,17 | 1,57 | 1,08 | 1,74 | 1,26 | 1,29 | 1,24 |
| -15 | (-16) | 2,66 | 1,64 | 2,93 | 1,31 | 0,79 | 1,49 | 2,02 | 2,07 | 1,97 |
| -10 | (-11) | 3,60 | 2,09 | 4,02 | 1,45 | 0,82 | 1,65 | 2,49 | 2,56 | 2,43 |
| -7 | (-8) | 4,26 | 2,06 | 4,67 | 1,52 | 0,70 | 1,73 | 2,81 | 2,93 | 2,70 |
| -5 | (-6) | 4,21 | 2,06 | 4,74 | 1,42 | 0,67 | 1,68 | 2,96 | 3,07 | 2,82 |
| 0 | (-1) | 4,53 | 2,12 | 4,92 | 1,40 | 0,63 | 1,55 | 3,23 | 3,34 | 3,18 |
| 5 | (4) | 5,11 | 2,58 | 5,59 | 1,32 | 0,64 | 1,48 | 3,86 | 4,01 | 3,77 |
| 7 | (6) | 4,38 | 2,95 | 6,26 | 0,95 | 0,62 | 1,42 | 4,64 | 4,78 | 4,41 |
| 10 | (9) | 5,64 | 2,84 | 6,31 | 1,17 | 0,56 | 1,36 | 4,83 | 5,06 | 4,63 |
| 15 | (14) | 5,78 | 2,96 | 6,40 | 1,08 | 0,52 | 1,27 | 5,38 | 5,68 | 5,04 |
| 20 | (19) | 5,59 | 3,88 | 6,16 | 0,95 | 0,62 | 1,12 | 5,89 | 6,23 | 5,48 |
| 25 | (24) | 5,47 | 4,31 | 5,91 | 0,83 | 0,62 | 0,98 | 6,55 | 6,94 | 6,06 |
| 30 | (29) | 5,48 | 4,03 | 5,89 | 0,79 | 0,55 | 0,92 | 6,97 | 7,37 | 6,39 |
| 35 | (34) | 5,50 | 4,04 | 5,86 | 0,74 | 0,51 | 0,87 | 7,43 | 7,87 | 6,77 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | | | | | | | |
| -25 | (-26) | 1,28 | 0,86 | 1,37 | 1,18 | 0,79 | 1,25 | 1,09 | 1,10 | 1,10 |
| -20 | (-21) | 1,83 | 1,23 | 1,98 | 1,61 | 1,07 | 1,75 | 1,14 | 1,15 | 1,13 |
| -15 | (-16) | 2,22 | 1,60 | 2,50 | 1,40 | 1,00 | 1,60 | 1,59 | 1,61 | 1,56 |
| -10 | (-11) | 3,25 | 2,17 | 3,59 | 1,59 | 1,04 | 1,77 | 2,05 | 2,09 | 2,02 |
| -7 | (-8) | 4,30 | 2,08 | 4,54 | 1,83 | 0,86 | 1,98 | 2,35 | 2,42 | 2,29 |
| -5 | (-6) | 4,10 | 2,16 | 4,63 | 1,61 | 0,83 | 1,89 | 2,55 | 2,60 | 2,45 |
| 0 | (-1) | 4,46 | 2,22 | 5,04 | 1,49 | 0,72 | 1,74 | 3,00 | 3,07 | 2,89 |
| 5 | (4) | 4,82 | 2,59 | 5,60 | 1,41 | 0,74 | 1,71 | 3,42 | 3,52 | 3,27 |
| 7 | (6) | 4,30 | 3,22 | 5,96 | 1,13 | 0,82 | 1,63 | 3,80 | 3,91 | 3,67 |
| 10 | (9) | 5,48 | 3,27 | 6,05 | 1,40 | 0,81 | 1,57 | 3,91 | 4,06 | 3,86 |
| 15 | (14) | 5,67 | 3,43 | 6,20 | 1,30 | 0,75 | 1,47 | 4,37 | 4,58 | 4,21 |
| 20 | (19) | 5,63 | 3,80 | 6,12 | 1,16 | 0,74 | 1,31 | 4,88 | 5,12 | 4,66 |
| 25 | (24) | 5,67 | 4,35 | 6,05 | 1,02 | 0,75 | 1,15 | 5,53 | 5,81 | 5,25 |
| 30 | (29) | 5,67 | 4,42 | 6,02 | 0,95 | 0,71 | 1,07 | 5,97 | 6,27 | 5,62 |
| 35 | (34) | 5,70 | 4,44 | 5,99 | 0,88 | 0,65 | 0,99 | 6,47 | 6,80 | 6,05 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | 1,73 | 1,28 | 1,85 | 1,61 | 1,18 | 1,75 | 1,07 | 1,08 | 1,06 |
| -15 | (-16) | 1,96 | 1,52 | 2,20 | 1,46 | 1,12 | 1,68 | 1,34 | 1,36 | 1,31 |
| -10 | (-11) | 2,99 | 2,23 | 3,28 | 1,62 | 1,19 | 1,81 | 1,84 | 1,88 | 1,81 |
| -7 | (-8) | 4,12 | 2,05 | 4,41 | 1,93 | 0,94 | 2,12 | 2,14 | 2,18 | 2,08 |
| -5 | (-6) | 4,04 | 2,09 | 4,56 | 1,73 | 0,92 | 2,02 | 2,33 | 2,27 | 2,26 |
| 0 | (-1) | 4,41 | 2,24 | 5,02 | 1,75 | 0,90 | 2,03 | 2,52 | 2,48 | 2,48 |
| 5 | (4) | 4,53 | 2,58 | 5,50 | 1,59 | 0,91 | 1,98 | 2,86 | 2,84 | 2,78 |
| 7 | (6) | 4,54 | 3,22 | 5,69 | 1,45 | 1,00 | 1,76 | 3,12 | 3,23 | 3,23 |
| 10 | (9) | 5,20 | 3,19 | 5,80 | 1,57 | 0,93 | 1,80 | 3,31 | 3,44 | 3,23 |
| 15 | (14) | 5,11 | 3,37 | 5,47 | 1,33 | 0,84 | 1,50 | 3,83 | 4,01 | 3,65 |
| 20 | (19) | 5,27 | 3,65 | 5,61 | 1,25 | 0,82 | 1,40 | 4,23 | 4,44 | 3,99 |
| 25 | (24) | 5,50 | 4,31 | 5,75 | 1,17 | 0,88 | 1,31 | 4,68 | 4,92 | 4,39 |
| 30 | (29) | 5,45 | 4,39 | 5,67 | 1,10 | 0,84 | 1,22 | 4,97 | 5,22 | 4,63 |
| 35 | (34) | 5,42 | 4,47 | 5,59 | 1,02 | 0,80 | 1,14 | 5,30 | 5,57 | 4,90 |

1.2 MAGIS M4 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 55 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | 1,50 | 1,14 | 1,56 | 1,52 | 1,14 | 1,59 | 0,99 | 1,00 | 0,98 |
| -15 | (-16) | 1,69 | 1,25 | 1,84 | 1,41 | 1,00 | 1,56 | 1,20 | 1,25 | 1,18 |
| -10 | (-11) | 2,40 | 1,82 | 2,63 | 1,52 | 1,14 | 1,68 | 1,58 | 1,60 | 1,56 |
| -7 | (-8) | 4,00 | 1,88 | 4,28 | 2,05 | 0,98 | 2,34 | 1,95 | 1,91 | 1,83 |
| -5 | (-6) | 3,94 | 1,99 | 4,41 | 1,96 | 0,98 | 2,26 | 2,01 | 2,04 | 1,95 |
| 0 | (-1) | 4,43 | 2,21 | 5,13 | 1,78 | 1,00 | 2,16 | 2,49 | 2,21 | 2,37 |
| 5 | (4) | 4,56 | 2,79 | 5,54 | 1,66 | 1,05 | 2,07 | 2,75 | 2,66 | 2,68 |
| 7 | (6) | 4,40 | 3,65 | 5,74 | 1,49 | 1,16 | 1,90 | 2,95 | 3,15 | 3,03 |
| 10 | (9) | 4,96 | 3,60 | 5,70 | 1,54 | 1,07 | 1,80 | 3,23 | 3,35 | 3,16 |
| 15 | (14) | 4,96 | 4,05 | 5,63 | 1,40 | 1,10 | 1,65 | 3,53 | 3,70 | 3,41 |
| 20 | (19) | 4,89 | 3,70 | 5,52 | 1,27 | 0,92 | 1,50 | 3,84 | 4,04 | 3,68 |
| 25 | (24) | 4,89 | 3,89 | 5,42 | 1,16 | 0,87 | 1,35 | 4,23 | 4,44 | 4,02 |
| 30 | (29) | 5,01 | 4,10 | 5,51 | 1,10 | 0,85 | 1,28 | 4,56 | 4,79 | 4,31 |
| 35 | (34) | 5,14 | 4,38 | 5,61 | 1,04 | 0,85 | 1,22 | 4,92 | 5,18 | 4,62 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | 1,61 | 1,23 | 1,73 | 1,56 | 1,17 | 1,68 | 1,03 | 1,05 | 1,03 |
| -10 | (-11) | 2,59 | 2,02 | 2,81 | 1,67 | 1,27 | 1,80 | 1,55 | 1,58 | 1,56 |
| -7 | (-8) | 3,15 | 2,22 | 3,56 | 1,68 | 1,16 | 1,94 | 1,87 | 1,91 | 1,84 |
| -5 | (-6) | 3,42 | 2,29 | 3,83 | 1,75 | 1,15 | 2,00 | 1,95 | 1,99 | 1,92 |
| 0 | (-1) | 3,87 | 2,61 | 4,40 | 1,86 | 1,22 | 2,10 | 2,09 | 2,14 | 2,09 |
| 5 | (4) | 4,28 | 3,05 | 4,90 | 1,81 | 1,25 | 2,09 | 2,37 | 2,44 | 2,35 |
| 7 | (6) | 4,27 | 3,56 | 5,41 | 1,61 | 1,30 | 2,08 | 2,65 | 2,75 | 2,61 |
| 10 | (9) | 4,84 | 3,53 | 5,27 | 1,76 | 1,24 | 1,96 | 2,74 | 2,85 | 2,69 |
| 15 | (14) | 4,68 | 3,68 | 5,04 | 1,58 | 1,23 | 1,76 | 2,97 | 3,00 | 2,87 |
| 20 | (19) | 4,45 | 3,19 | 4,77 | 1,45 | 0,99 | 1,56 | 3,07 | 3,23 | 3,06 |
| 25 | (24) | 4,28 | 3,28 | 4,50 | 1,28 | 0,93 | 1,36 | 3,34 | 3,52 | 3,30 |
| 30 | (29) | 4,41 | 3,48 | 4,61 | 1,23 | 0,93 | 1,32 | 3,57 | 3,76 | 3,51 |
| 35 | (34) | - | - | - | - | - | - | - | - | - |
| d.b. | (w.b.) | Water flow temperature 65 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | - | - | - | - | - | - | - | - | - |
| -10 | (-11) | - | - | - | - | - | - | - | - | - |
| -7 | (-8) | - | - | - | - | - | - | - | - | - |
| -5 | (-6) | - | - | - | - | - | - | - | - | - |
| 0 | (-1) | - | - | - | - | - | - | - | - | - |
| 5 | (4) | 3,30 | 2,33 | 4,04 | 1,68 | 1,14 | 2,16 | 1,96 | 2,04 | 1,87 |
| 7 | (6) | 3,54 | 2,71 | 4,27 | 1,64 | 1,19 | 2,09 | 2,16 | 2,26 | 2,04 |
| 10 | (9) | 3,67 | 2,87 | 4,49 | 1,56 | 1,17 | 2,02 | 2,35 | 2,44 | 2,22 |
| 15 | (14) | 4,03 | 3,07 | 4,87 | 1,45 | 1,06 | 1,90 | 2,77 | 2,90 | 2,56 |
| 20 | (19) | - | - | - | - | - | - | - | - | - |
| 25 | (24) | - | - | - | - | - | - | - | - | - |
| 30 | (29) | - | - | - | - | - | - | - | - | - |
| 35 | (34) | - | - | - | - | - | - | - | - | - |

MAGIS M4

2 MAGIS M4 “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--|-------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. Water flow temperature 5 °C | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | 3,68 | 1,86 | 4,72 | 0,77 | 0,38 | 1,04 | 4,76 | 4,95 | 4,53 |
| 25 | 4,65 | 2,23 | 5,87 | 0,97 | 0,46 | 1,30 | 4,78 | 4,89 | 4,51 |
| 30 | 4,69 | 2,23 | 5,84 | 1,17 | 0,54 | 1,55 | 4,02 | 4,10 | 3,78 |
| 35 | 4,51 | 2,05 | 5,80 | 1,32 | 0,59 | 1,79 | 3,40 | 3,50 | 3,24 |
| 40 | 3,10 | 1,40 | 3,80 | 1,15 | 0,52 | 1,51 | 2,70 | 2,69 | 2,52 |
| 43 | 2,12 | 0,73 | 2,58 | 0,91 | 0,31 | 1,15 | 2,33 | 2,38 | 2,24 |
| d.b. Water flow temperature 10 °C | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | 3,79 | 2,32 | 5,05 | 0,61 | 0,35 | 0,86 | 6,25 | 6,64 | 5,91 |
| 20 | 4,86 | 2,13 | 6,01 | 1,01 | 0,43 | 1,35 | 4,80 | 5,00 | 4,47 |
| 25 | 5,72 | 2,37 | 6,97 | 1,40 | 0,55 | 1,84 | 4,09 | 4,29 | 3,80 |
| 30 | 5,67 | 2,33 | 6,80 | 1,45 | 0,57 | 1,85 | 3,92 | 4,11 | 3,67 |
| 35 | 5,45 | 2,53 | 6,64 | 1,43 | 0,63 | 1,87 | 3,82 | 4,00 | 3,55 |
| 40 | 4,30 | 2,01 | 5,08 | 1,42 | 0,64 | 1,81 | 3,03 | 3,12 | 2,81 |
| 43 | 2,99 | 1,43 | 3,80 | 1,15 | 0,53 | 1,52 | 2,59 | 2,68 | 2,51 |
| d.b. Water flow temperature 15 °C | | | | | | | | | |
| 5 | 3,23 | 1,74 | 4,04 | 0,48 | 0,24 | 0,67 | 6,68 | 7,35 | 6,07 |
| 10 | 4,87 | 2,70 | 6,06 | 0,77 | 0,39 | 1,06 | 6,29 | 6,99 | 5,71 |
| 15 | 6,79 | 3,64 | 8,09 | 1,15 | 0,58 | 1,46 | 5,89 | 6,29 | 5,55 |
| 20 | 6,80 | 3,38 | 8,16 | 1,16 | 0,54 | 1,49 | 5,88 | 6,23 | 5,47 |
| 25 | 6,96 | 3,29 | 8,23 | 1,21 | 0,54 | 1,53 | 5,74 | 6,04 | 5,39 |
| 30 | 6,67 | 3,12 | 7,77 | 1,32 | 0,59 | 1,65 | 5,06 | 5,30 | 4,72 |
| 35 | 6,02 | 3,01 | 7,31 | 1,35 | 0,63 | 1,76 | 4,47 | 4,79 | 4,15 |
| 40 | 5,15 | 2,52 | 5,91 | 1,40 | 0,66 | 1,73 | 3,68 | 3,82 | 3,41 |
| 43 | 4,04 | 2,11 | 5,08 | 1,18 | 0,59 | 1,56 | 3,43 | 3,57 | 3,26 |

2.1 MAGIS M4 “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|--------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 20 °C | | | | | | | | |
| 5 | 3,81 | 2,06 | 4,75 | 0,52 | 0,27 | 0,75 | 7,29 | 7,76 | 6,34 |
| 10 | 5,19 | 2,90 | 6,44 | 0,70 | 0,37 | 1,01 | 7,37 | 7,91 | 6,40 |
| 15 | 7,00 | 3,50 | 8,14 | 0,99 | 0,45 | 1,26 | 7,06 | 7,80 | 6,44 |
| 20 | 7,17 | 3,95 | 8,33 | 1,03 | 0,54 | 1,30 | 6,94 | 7,32 | 6,42 |
| 25 | 7,44 | 3,92 | 8,52 | 1,07 | 0,53 | 1,33 | 6,98 | 7,33 | 6,40 |
| 30 | 7,25 | 3,79 | 8,19 | 1,20 | 0,59 | 1,46 | 6,05 | 6,38 | 5,63 |
| 35 | 6,87 | 3,66 | 7,87 | 1,28 | 0,63 | 1,58 | 5,36 | 5,81 | 4,98 |
| 40 | 5,95 | 3,18 | 6,63 | 1,37 | 0,71 | 1,68 | 4,34 | 4,50 | 3,95 |
| 43 | 5,04 | 2,57 | 5,88 | 1,25 | 0,62 | 1,57 | 4,04 | 4,17 | 3,74 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | TWater flow temperature 25 °C | | | | | | | | |
| 5 | 4,36 | 2,35 | 5,37 | 0,45 | 0,23 | 0,65 | 9,77 | 10,17 | 8,28 |
| 10 | 5,79 | 3,21 | 7,11 | 0,59 | 0,31 | 0,85 | 9,89 | 10,39 | 8,37 |
| 15 | 7,44 | 4,25 | 8,85 | 0,80 | 0,41 | 1,05 | 9,29 | 10,32 | 8,43 |
| 20 | 7,82 | 4,44 | 8,98 | 0,87 | 0,47 | 1,10 | 8,98 | 9,50 | 8,15 |
| 25 | 8,05 | 4,38 | 9,12 | 0,91 | 0,47 | 1,15 | 8,85 | 9,28 | 7,90 |
| 30 | 7,85 | 4,23 | 8,77 | 1,06 | 0,55 | 1,30 | 7,44 | 7,72 | 6,75 |
| 35 | 7,69 | 4,23 | 8,43 | 1,20 | 0,62 | 1,44 | 6,39 | 6,84 | 5,84 |
| 40 | 7,15 | 4,07 | 7,88 | 1,32 | 0,74 | 1,64 | 5,41 | 5,51 | 4,80 |
| 43 | 5,97 | 3,80 | 7,55 | 1,15 | 0,71 | 1,59 | 5,18 | 5,38 | 4,73 |

MAGIS M6

3 MAGIS M6 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|-------|
| d.b. | (w.b.) | Water flow temperature 25 °C | | | | | | | | |
| -25 | (-26) | 2,37 | 1,54 | 2,57 | 1,35 | 0,86 | 1,49 | 1,76 | 1,78 | 1,72 |
| -20 | (-21) | 3,33 | 2,04 | 3,64 | 1,37 | 0,82 | 1,56 | 2,43 | 2,47 | 2,34 |
| -15 | (-16) | 4,01 | 2,07 | 4,43 | 1,29 | 0,65 | 1,49 | 3,11 | 3,18 | 2,97 |
| -10 | (-11) | 5,15 | 2,28 | 5,75 | 1,43 | 0,62 | 1,69 | 3,61 | 3,71 | 3,41 |
| -7 | (-8) | 6,24 | 1,57 | 6,55 | 1,62 | 0,39 | 1,77 | 3,86 | 4,03 | 3,71 |
| -5 | (-6) | 5,89 | 1,78 | 6,54 | 1,40 | 0,41 | 1,64 | 4,20 | 4,32 | 3,98 |
| 0 | (-1) | 5,99 | 1,74 | 6,49 | 1,20 | 0,34 | 1,34 | 4,98 | 5,15 | 4,85 |
| 5 | (4) | 6,43 | 2,31 | 7,04 | 1,16 | 0,40 | 1,31 | 5,56 | 5,78 | 5,37 |
| 7 | (6) | 6,75 | 2,71 | 7,58 | 1,09 | 0,42 | 1,28 | 6,18 | 6,44 | 5,90 |
| 10 | (9) | 6,68 | 2,27 | 7,43 | 1,02 | 0,33 | 1,21 | 6,52 | 6,83 | 6,12 |
| 15 | (14) | 6,52 | 2,81 | 7,17 | 0,94 | 0,38 | 1,13 | 6,93 | 7,31 | 6,35 |
| 20 | (19) | 6,34 | 3,12 | 6,93 | 0,81 | 0,38 | 0,97 | 7,85 | 8,30 | 7,15 |
| 25 | (24) | 5,97 | 3,68 | 6,69 | 0,65 | 0,38 | 0,80 | 9,21 | 9,73 | 8,32 |
| 30 | (29) | 6,04 | 3,88 | 6,74 | 0,57 | 0,35 | 0,71 | 10,60 | 11,20 | 9,53 |
| 35 | (34) | 6,14 | 4,55 | 6,79 | 0,53 | 0,37 | 0,66 | 11,60 | 12,30 | 10,30 |
| d.b. | (w.b.) | Water flow temperature 30 °C | | | | | | | | |
| -25 | (-26) | 2,07 | 1,39 | 2,25 | 1,37 | 0,91 | 1,53 | 1,51 | 1,53 | 1,46 |
| -20 | (-21) | 3,04 | 1,80 | 3,34 | 1,65 | 0,96 | 1,86 | 1,85 | 1,88 | 1,80 |
| -15 | (-16) | 3,77 | 2,03 | 4,19 | 1,33 | 0,70 | 1,53 | 2,83 | 2,90 | 2,73 |
| -10 | (-11) | 4,89 | 2,14 | 5,50 | 1,57 | 0,67 | 1,84 | 3,12 | 3,21 | 2,99 |
| -7 | (-8) | 6,05 | 1,45 | 6,30 | 1,80 | 0,41 | 1,92 | 3,36 | 3,50 | 3,28 |
| -5 | (-6) | 5,64 | 1,66 | 6,32 | 1,54 | 0,44 | 1,79 | 3,66 | 3,76 | 3,52 |
| 0 | (-1) | 5,80 | 1,82 | 6,37 | 1,31 | 0,40 | 1,48 | 4,43 | 4,58 | 4,31 |
| 5 | (4) | 6,06 | 2,32 | 6,71 | 1,31 | 0,48 | 1,50 | 4,64 | 4,82 | 4,48 |
| 7 | (6) | 6,30 | 2,65 | 7,06 | 1,21 | 0,49 | 1,47 | 5,21 | 5,37 | 4,81 |
| 10 | (9) | 6,22 | 2,08 | 7,11 | 1,13 | 0,36 | 1,36 | 5,49 | 5,75 | 5,24 |
| 15 | (14) | 6,37 | 2,83 | 7,20 | 1,02 | 0,43 | 1,24 | 6,24 | 6,59 | 5,82 |
| 20 | (19) | 6,20 | 3,41 | 6,97 | 0,91 | 0,48 | 1,11 | 6,79 | 7,18 | 6,28 |
| 25 | (24) | 6,12 | 3,97 | 6,74 | 0,78 | 0,48 | 0,94 | 7,79 | 8,24 | 7,16 |
| 30 | (29) | 6,24 | 4,20 | 6,83 | 0,71 | 0,45 | 0,85 | 8,79 | 9,30 | 8,02 |
| 35 | (34) | 6,38 | 4,71 | 6,93 | 0,61 | 0,43 | 0,73 | 10,40 | 11,00 | 9,43 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | | | | | | | |
| -25 | (-26) | 1,95 | 1,48 | 2,14 | 1,50 | 1,12 | 1,67 | 1,30 | 1,32 | 1,28 |
| -20 | (-21) | 2,60 | 1,67 | 2,88 | 1,78 | 1,12 | 2,03 | 1,46 | 1,49 | 1,42 |
| -15 | (-16) | 3,57 | 1,90 | 4,00 | 1,47 | 0,76 | 1,71 | 2,43 | 2,49 | 2,34 |
| -10 | (-11) | 4,51 | 2,02 | 5,11 | 1,69 | 0,74 | 1,99 | 2,66 | 2,74 | 2,57 |
| -7 | (-8) | 6,00 | 1,48 | 6,21 | 2,00 | 0,48 | 2,17 | 3,00 | 3,06 | 2,86 |
| -5 | (-6) | 5,26 | 1,70 | 6,14 | 1,64 | 0,52 | 1,99 | 3,21 | 3,30 | 3,09 |
| 0 | (-1) | 5,74 | 1,77 | 6,35 | 1,47 | 0,44 | 1,68 | 3,89 | 4,02 | 3,79 |
| 5 | (4) | 6,16 | 2,33 | 6,88 | 1,39 | 0,51 | 1,62 | 4,42 | 4,59 | 4,25 |
| 7 | (6) | 6,35 | 2,73 | 7,41 | 1,28 | 0,53 | 1,56 | 4,95 | 5,32 | 4,76 |
| 10 | (9) | 6,49 | 2,32 | 7,35 | 1,26 | 0,43 | 1,46 | 5,17 | 5,42 | 5,02 |
| 15 | (14) | 6,48 | 2,84 | 7,26 | 1,16 | 0,48 | 1,38 | 5,57 | 5,89 | 5,28 |
| 20 | (19) | 6,27 | 3,70 | 6,98 | 1,00 | 0,56 | 1,18 | 6,28 | 6,65 | 5,91 |
| 25 | (24) | 6,13 | 4,22 | 6,70 | 0,91 | 0,59 | 1,06 | 6,75 | 7,15 | 6,31 |
| 30 | (29) | 6,29 | 4,47 | 6,83 | 0,80 | 0,54 | 0,94 | 7,84 | 8,30 | 7,27 |
| 35 | (34) | 6,46 | 4,57 | 6,96 | 0,73 | 0,49 | 0,85 | 8,87 | 9,40 | 8,17 |

3.1 MAGIS M6 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 40 °C | | | | | | | | |
| -25 | (-26) | 1,77 | 1,36 | 1,91 | 1,51 | 1,14 | 1,64 | 1,17 | 1,19 | 1,17 |
| -20 | (-21) | 2,34 | 1,64 | 2,56 | 1,87 | 1,28 | 2,08 | 1,25 | 1,28 | 1,23 |
| -15 | (-16) | 3,27 | 2,02 | 3,61 | 1,65 | 0,99 | 1,87 | 1,98 | 2,03 | 1,93 |
| -10 | (-11) | 4,33 | 2,51 | 4,83 | 1,91 | 1,07 | 2,18 | 2,27 | 2,34 | 2,22 |
| -7 | (-8) | 5,61 | 2,49 | 5,79 | 2,21 | 0,92 | 2,32 | 2,54 | 2,72 | 2,50 |
| -5 | (-6) | 5,26 | 2,59 | 5,97 | 1,81 | 0,87 | 2,18 | 2,90 | 2,98 | 2,74 |
| 0 | (-1) | 6,26 | 2,93 | 6,80 | 1,81 | 0,82 | 1,99 | 3,47 | 3,59 | 3,42 |
| 5 | (4) | 6,36 | 3,21 | 6,96 | 1,68 | 0,82 | 1,89 | 3,78 | 3,93 | 3,69 |
| 7 | (6) | 6,44 | 3,36 | 7,13 | 1,55 | 0,78 | 1,79 | 4,14 | 4,32 | 3,99 |
| 10 | (9) | 6,59 | 3,32 | 7,37 | 1,50 | 0,72 | 1,75 | 4,39 | 4,60 | 4,21 |
| 15 | (14) | 7,03 | 3,60 | 7,78 | 1,43 | 0,69 | 1,69 | 4,92 | 5,20 | 4,61 |
| 20 | (19) | 6,55 | 4,54 | 7,21 | 1,30 | 0,85 | 1,54 | 5,05 | 5,34 | 4,70 |
| 25 | (24) | 6,15 | 4,85 | 6,65 | 1,11 | 0,83 | 1,30 | 5,53 | 5,85 | 5,11 |
| 30 | (29) | 6,10 | 4,49 | 6,56 | 0,93 | 0,65 | 1,09 | 6,55 | 6,94 | 6,01 |
| 35 | (34) | 6,07 | 4,46 | 6,47 | 0,81 | 0,56 | 0,94 | 7,54 | 7,99 | 6,87 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | | | | | | | |
| -25 | (-26) | 1,61 | 1,08 | 1,71 | 1,49 | 0,99 | 1,57 | 1,08 | 1,09 | 1,09 |
| -20 | (-21) | 2,16 | 1,45 | 2,33 | 1,92 | 1,27 | 2,08 | 1,13 | 1,14 | 1,12 |
| -15 | (-16) | 2,73 | 1,97 | 3,08 | 1,76 | 1,25 | 2,01 | 1,56 | 1,58 | 1,53 |
| -10 | (-11) | 4,21 | 2,81 | 4,64 | 2,01 | 1,32 | 2,24 | 2,10 | 2,14 | 2,07 |
| -7 | (-8) | 5,40 | 2,67 | 5,57 | 2,25 | 1,08 | 2,38 | 2,40 | 2,48 | 2,35 |
| -5 | (-6) | 5,10 | 2,82 | 5,84 | 1,93 | 1,05 | 2,30 | 2,64 | 2,69 | 2,54 |
| 0 | (-1) | 6,06 | 3,02 | 6,85 | 1,92 | 0,93 | 2,25 | 3,15 | 3,23 | 3,04 |
| 5 | (4) | 6,13 | 3,29 | 6,99 | 1,78 | 0,93 | 2,12 | 3,45 | 3,54 | 3,29 |
| 7 | (6) | 6,30 | 3,85 | 7,13 | 1,70 | 0,99 | 2,00 | 3,70 | 3,88 | 3,58 |
| 10 | (9) | 6,62 | 3,96 | 7,32 | 1,73 | 0,99 | 1,93 | 3,83 | 3,99 | 3,78 |
| 15 | (14) | 6,98 | 4,22 | 7,63 | 1,61 | 0,93 | 1,83 | 4,32 | 4,53 | 4,16 |
| 20 | (19) | 6,82 | 4,60 | 7,42 | 1,48 | 0,95 | 1,68 | 4,62 | 4,86 | 4,42 |
| 25 | (24) | 6,76 | 5,19 | 7,21 | 1,35 | 0,99 | 1,52 | 4,99 | 5,24 | 4,74 |
| 30 | (29) | 6,64 | 5,18 | 7,05 | 1,24 | 0,92 | 1,40 | 5,35 | 5,63 | 5,05 |
| 35 | (34) | 6,55 | 5,10 | 6,89 | 1,13 | 0,84 | 1,27 | 5,79 | 6,09 | 5,42 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | 2,04 | 1,51 | 2,19 | 1,88 | 1,38 | 2,04 | 1,08 | 1,09 | 1,07 |
| -15 | (-16) | 2,41 | 1,86 | 2,70 | 1,76 | 1,35 | 2,02 | 1,37 | 1,39 | 1,34 |
| -10 | (-11) | 3,76 | 2,80 | 4,13 | 2,15 | 1,57 | 2,41 | 1,75 | 1,78 | 1,72 |
| -7 | (-8) | 5,07 | 2,57 | 5,29 | 2,45 | 1,22 | 2,63 | 2,07 | 2,11 | 2,01 |
| -5 | (-6) | 4,31 | 2,59 | 5,44 | 1,87 | 1,10 | 2,44 | 2,30 | 2,35 | 2,23 |
| 0 | (-1) | 5,36 | 2,99 | 5,88 | 2,12 | 1,15 | 2,37 | 2,53 | 2,59 | 2,48 |
| 5 | (4) | 5,76 | 3,43 | 6,37 | 1,99 | 1,15 | 2,27 | 2,89 | 2,98 | 2,81 |
| 7 | (6) | 6,13 | 4,26 | 6,87 | 1,86 | 1,25 | 2,16 | 3,29 | 3,41 | 3,17 |
| 10 | (9) | 6,47 | 4,22 | 7,01 | 1,88 | 1,18 | 2,09 | 3,44 | 3,57 | 3,35 |
| 15 | (14) | 6,76 | 4,46 | 7,24 | 1,75 | 1,10 | 1,97 | 3,86 | 4,05 | 3,67 |
| 20 | (19) | 6,84 | 4,73 | 7,28 | 1,61 | 1,06 | 1,81 | 4,25 | 4,46 | 4,02 |
| 25 | (24) | 7,01 | 5,50 | 7,33 | 1,49 | 1,11 | 1,66 | 4,72 | 4,96 | 4,43 |
| 30 | (29) | 6,64 | 5,35 | 6,91 | 1,26 | 0,96 | 1,40 | 5,28 | 5,55 | 4,92 |
| 35 | (34) | 6,29 | 5,19 | 6,49 | 1,12 | 0,88 | 1,24 | 5,63 | 5,92 | 5,21 |

MAGIS M6

3.2 MAGIS M6 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 55 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | 1,77 | 1,34 | 1,84 | 1,78 | 1,34 | 1,86 | 1,00 | 1,01 | 0,99 |
| -15 | (-16) | 2,08 | 1,53 | 2,26 | 1,70 | 1,24 | 1,88 | 1,22 | 1,24 | 1,20 |
| -10 | (-11) | 3,46 | 2,63 | 3,80 | 2,03 | 1,51 | 2,24 | 1,71 | 1,74 | 1,69 |
| -7 | (-8) | 5,15 | 2,64 | 5,22 | 2,58 | 1,31 | 2,66 | 2,00 | 2,01 | 1,96 |
| -5 | (-6) | 4,28 | 2,81 | 5,31 | 2,06 | 1,33 | 2,64 | 2,07 | 2,11 | 2,01 |
| 0 | (-1) | 4,75 | 2,85 | 5,42 | 2,24 | 1,31 | 2,59 | 2,12 | 2,17 | 2,09 |
| 5 | (4) | 5,40 | 3,46 | 6,11 | 2,13 | 1,32 | 2,46 | 2,54 | 2,62 | 2,48 |
| 7 | (6) | 6,00 | 4,38 | 6,90 | 2,03 | 1,41 | 2,37 | 2,95 | 3,10 | 2,91 |
| 10 | (9) | 6,04 | 4,37 | 6,93 | 1,94 | 1,35 | 2,28 | 3,11 | 3,23 | 3,04 |
| 15 | (14) | 6,15 | 5,03 | 6,98 | 1,80 | 1,40 | 2,12 | 3,42 | 3,58 | 3,30 |
| 20 | (19) | 6,03 | 4,56 | 6,81 | 1,60 | 1,15 | 1,89 | 3,76 | 3,95 | 3,60 |
| 25 | (24) | 5,99 | 4,76 | 6,63 | 1,43 | 1,08 | 1,66 | 4,20 | 4,41 | 4,00 |
| 30 | (29) | 6,00 | 4,91 | 6,60 | 1,35 | 1,05 | 1,57 | 4,46 | 4,69 | 4,21 |
| 35 | (34) | 6,02 | 5,13 | 6,57 | 1,27 | 1,03 | 1,48 | 4,75 | 4,99 | 4,45 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | 1,98 | 1,51 | 2,13 | 1,88 | 1,41 | 2,02 | 1,05 | 1,07 | 1,05 |
| -10 | (-11) | 3,06 | 2,38 | 3,32 | 2,13 | 1,63 | 2,30 | 1,44 | 1,47 | 1,44 |
| -7 | (-8) | 4,28 | 2,68 | 4,57 | 2,39 | 1,47 | 2,61 | 1,79 | 1,82 | 1,75 |
| -5 | (-6) | 3,94 | 2,72 | 4,73 | 2,12 | 1,43 | 2,59 | 1,86 | 1,90 | 1,83 |
| 0 | (-1) | 4,46 | 3,00 | 5,06 | 2,24 | 1,47 | 2,54 | 1,99 | 2,04 | 1,99 |
| 5 | (4) | 5,01 | 3,58 | 5,74 | 2,19 | 1,52 | 2,53 | 2,29 | 2,36 | 2,27 |
| 7 | (6) | 5,64 | 4,23 | 6,42 | 2,17 | 1,57 | 2,52 | 2,60 | 2,69 | 2,55 |
| 10 | (9) | 5,76 | 4,20 | 6,27 | 2,17 | 1,53 | 2,41 | 2,65 | 2,75 | 2,60 |
| 15 | (14) | 5,59 | 4,39 | 6,01 | 2,00 | 1,56 | 2,23 | 2,79 | 2,82 | 2,70 |
| 20 | (19) | 5,58 | 4,00 | 5,98 | 1,82 | 1,24 | 1,95 | 3,07 | 3,23 | 3,06 |
| 25 | (24) | 5,65 | 4,34 | 5,94 | 1,57 | 1,15 | 1,67 | 3,59 | 3,78 | 3,55 |
| 30 | (29) | 5,75 | 4,54 | 6,01 | 1,47 | 1,10 | 1,57 | 3,91 | 4,11 | 3,83 |
| 35 | (34) | - | - | - | - | - | - | - | - | - |
| d.b. | (w.b.) | Water flow temperature 65 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | - | - | - | - | - | - | - | - | - |
| -10 | (-11) | - | - | - | - | - | - | - | - | - |
| -7 | (-8) | - | - | - | - | - | - | - | - | - |
| -5 | (-6) | - | - | - | - | - | - | - | - | - |
| 0 | (-1) | - | - | - | - | - | - | - | - | - |
| 5 | (4) | 4,03 | 2,85 | 4,92 | 2,09 | 1,42 | 2,68 | 1,93 | 2,01 | 1,84 |
| 7 | (6) | 4,40 | 3,33 | 5,25 | 2,06 | 1,49 | 2,60 | 2,14 | 2,24 | 2,02 |
| 10 | (9) | 4,54 | 3,55 | 5,57 | 1,94 | 1,46 | 2,52 | 2,34 | 2,43 | 2,21 |
| 15 | (14) | 5,04 | 3,84 | 6,10 | 1,82 | 1,33 | 2,39 | 2,77 | 2,90 | 2,56 |
| 20 | (19) | - | - | - | - | - | - | - | - | - |
| 25 | (24) | - | - | - | - | - | - | - | - | - |
| 30 | (29) | - | - | - | - | - | - | - | - | - |
| 35 | (34) | - | - | - | - | - | - | - | - | - |

| | |
|---|--|
| 4 | MAGIS M6 “POWER” AND “EER” IN COOLING |
|---|--|

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 5 °C | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | 4,22 | 2,13 | 5,41 | 1,02 | 0,50 | 1,38 | 4,14 | 4,30 | 3,93 |
| 25 | 5,67 | 2,72 | 7,16 | 1,35 | 0,63 | 1,80 | 4,21 | 4,31 | 3,98 |
| 30 | 5,23 | 2,48 | 6,50 | 1,40 | 0,65 | 1,85 | 3,74 | 3,81 | 3,51 |
| 35 | 4,54 | 2,07 | 5,84 | 1,41 | 0,62 | 1,90 | 3,22 | 3,31 | 3,07 |
| 40 | 3,10 | 1,40 | 3,80 | 1,15 | 0,52 | 1,51 | 2,70 | 2,69 | 2,52 |
| 43 | 2,12 | 0,73 | 2,58 | 0,91 | 0,31 | 1,15 | 2,33 | 2,38 | 2,24 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 10 °C | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | 4,42 | 2,71 | 5,89 | 0,78 | 0,45 | 1,10 | 5,65 | 5,99 | 5,33 |
| 20 | 5,36 | 2,35 | 6,63 | 1,08 | 0,45 | 1,43 | 4,96 | 5,17 | 4,62 |
| 25 | 6,05 | 2,50 | 7,37 | 1,35 | 0,53 | 1,77 | 4,49 | 4,72 | 4,17 |
| 30 | 6,08 | 2,49 | 7,29 | 1,48 | 0,58 | 1,90 | 4,10 | 4,30 | 3,84 |
| 35 | 5,93 | 2,75 | 7,22 | 1,55 | 0,69 | 2,03 | 3,83 | 4,00 | 3,55 |
| 40 | 4,30 | 2,01 | 5,08 | 1,42 | 0,64 | 1,81 | 3,03 | 3,12 | 2,81 |
| 43 | 2,99 | 1,43 | 3,80 | 1,15 | 0,53 | 1,52 | 2,59 | 2,68 | 2,51 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 15 °C | | | | | | | | |
| 5 | 3,64 | 1,96 | 4,55 | 0,58 | 0,28 | 0,79 | 6,31 | 6,95 | 5,74 |
| 10 | 5,08 | 2,81 | 6,32 | 0,82 | 0,41 | 1,13 | 6,18 | 6,87 | 5,61 |
| 15 | 6,79 | 3,64 | 8,09 | 1,15 | 0,58 | 1,46 | 5,89 | 6,29 | 5,55 |
| 20 | 6,80 | 3,38 | 8,16 | 1,16 | 0,54 | 1,49 | 5,88 | 6,23 | 5,47 |
| 25 | 6,96 | 3,29 | 8,23 | 1,21 | 0,54 | 1,53 | 5,74 | 6,04 | 5,39 |
| 30 | 6,67 | 3,12 | 7,77 | 1,32 | 0,59 | 1,65 | 5,06 | 5,30 | 4,72 |
| 35 | 6,02 | 3,01 | 7,31 | 1,35 | 0,63 | 1,76 | 4,47 | 4,79 | 4,15 |
| 40 | 5,15 | 2,52 | 5,91 | 1,40 | 0,66 | 1,73 | 3,68 | 3,82 | 3,41 |
| 43 | 4,04 | 2,11 | 5,08 | 1,18 | 0,59 | 1,56 | 3,43 | 3,57 | 3,26 |

MAGIS M6

4.1 MAGIS M6 “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 20 °C | | | | | | | | |
| 5 | 4,54 | 2,46 | 5,66 | 0,53 | 0,27 | 0,76 | 8,61 | 9,16 | 7,48 |
| 10 | 5,55 | 3,10 | 6,90 | 0,71 | 0,37 | 1,01 | 7,86 | 8,44 | 6,83 |
| 15 | 7,00 | 3,50 | 8,14 | 0,99 | 0,45 | 1,26 | 7,06 | 7,80 | 6,44 |
| 20 | 7,17 | 3,95 | 8,33 | 1,03 | 0,54 | 1,30 | 6,94 | 7,32 | 6,42 |
| 25 | 7,44 | 3,92 | 8,52 | 1,07 | 0,53 | 1,33 | 6,98 | 7,33 | 6,40 |
| 30 | 7,25 | 3,79 | 8,19 | 1,20 | 0,59 | 1,46 | 6,05 | 6,38 | 5,63 |
| 35 | 6,87 | 3,66 | 7,87 | 1,28 | 0,63 | 1,58 | 5,36 | 5,81 | 4,98 |
| 40 | 5,95 | 3,18 | 6,63 | 1,37 | 0,71 | 1,68 | 4,34 | 4,50 | 3,95 |
| 43 | 5,04 | 2,57 | 5,88 | 1,25 | 0,62 | 1,57 | 4,04 | 4,17 | 3,74 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 25 °C | | | | | | | | |
| 5 | 4,91 | 2,64 | 6,05 | 0,58 | 0,30 | 0,84 | 8,49 | 8,84 | 7,20 |
| 10 | 6,06 | 3,36 | 7,45 | 0,65 | 0,34 | 0,95 | 9,31 | 9,78 | 7,88 |
| 15 | 7,44 | 4,25 | 8,85 | 0,80 | 0,41 | 1,05 | 9,29 | 10,32 | 8,43 |
| 20 | 7,82 | 4,44 | 8,98 | 0,87 | 0,47 | 1,10 | 8,98 | 9,50 | 8,15 |
| 25 | 8,05 | 4,38 | 9,12 | 0,91 | 0,47 | 1,15 | 8,85 | 9,28 | 7,90 |
| 30 | 7,85 | 4,23 | 8,77 | 1,06 | 0,55 | 1,30 | 7,44 | 7,72 | 6,75 |
| 35 | 7,69 | 4,23 | 8,43 | 1,20 | 0,62 | 1,44 | 6,39 | 6,84 | 5,84 |
| 40 | 7,15 | 4,07 | 7,88 | 1,32 | 0,74 | 1,64 | 5,41 | 5,51 | 4,80 |
| 43 | 5,97 | 3,80 | 7,55 | 1,15 | 0,71 | 1,59 | 5,18 | 5,38 | 4,73 |

5 MAGIS M8 "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|-------|
| d.b. | (w.b.) | Water flow temperature 25 °C | | | | | | | | |
| -25 | (-26) | 4,11 | 2,67 | 4,45 | 1,79 | 1,15 | 1,98 | 2,29 | 2,33 | 2,25 |
| -20 | (-21) | 5,20 | 3,18 | 5,68 | 1,79 | 1,08 | 2,03 | 2,90 | 2,96 | 2,80 |
| -15 | (-16) | 6,24 | 3,22 | 6,90 | 1,79 | 0,90 | 2,07 | 3,49 | 3,58 | 3,34 |
| -10 | (-11) | 6,66 | 2,96 | 7,45 | 1,71 | 0,74 | 2,02 | 3,89 | 4,01 | 3,68 |
| -7 | (-8) | 7,27 | 1,83 | 7,64 | 1,83 | 0,45 | 2,03 | 3,97 | 4,09 | 3,76 |
| -5 | (-6) | 7,25 | 2,19 | 8,05 | 1,71 | 0,50 | 2,00 | 4,25 | 4,37 | 4,02 |
| 0 | (-1) | 7,60 | 2,21 | 8,24 | 1,55 | 0,44 | 1,73 | 4,89 | 5,06 | 4,77 |
| 5 | (4) | 8,09 | 2,90 | 8,86 | 1,31 | 0,45 | 1,49 | 6,17 | 6,41 | 5,95 |
| 7 | (6) | 8,60 | 3,40 | 9,51 | 1,26 | 0,48 | 1,45 | 6,84 | 7,14 | 6,54 |
| 10 | (9) | 9,05 | 3,08 | 10,10 | 1,14 | 0,37 | 1,35 | 7,93 | 8,30 | 7,44 |
| 15 | (14) | 8,96 | 3,86 | 9,86 | 0,93 | 0,38 | 1,12 | 9,59 | 10,10 | 8,79 |
| 20 | (19) | 8,82 | 4,34 | 9,65 | 0,79 | 0,37 | 0,95 | 11,10 | 11,80 | 10,10 |
| 25 | (24) | 8,39 | 5,18 | 9,42 | 0,73 | 0,42 | 0,90 | 11,60 | 12,20 | 10,40 |
| 30 | (29) | 8,23 | 5,28 | 9,18 | 0,67 | 0,41 | 0,83 | 12,30 | 13,00 | 11,00 |
| 35 | (34) | 8,63 | 6,40 | 9,55 | 0,68 | 0,48 | 0,84 | 12,70 | 13,40 | 11,30 |
| d.b. | (w.b.) | Water flow temperature 30 °C | | | | | | | | |
| -25 | (-26) | 3,68 | 2,48 | 4,00 | 1,82 | 1,21 | 2,04 | 2,03 | 2,06 | 1,96 |
| -20 | (-21) | 4,63 | 2,75 | 5,09 | 1,90 | 1,11 | 2,15 | 2,43 | 2,48 | 2,37 |
| -15 | (-16) | 5,80 | 3,12 | 6,44 | 1,95 | 1,03 | 2,24 | 2,98 | 3,05 | 2,87 |
| -10 | (-11) | 6,48 | 2,84 | 7,28 | 1,86 | 0,79 | 2,18 | 3,49 | 3,59 | 3,33 |
| -7 | (-8) | 7,11 | 1,72 | 7,47 | 2,01 | 0,47 | 2,20 | 3,53 | 3,63 | 3,40 |
| -5 | (-6) | 7,11 | 2,09 | 7,97 | 1,86 | 0,53 | 2,16 | 3,83 | 3,94 | 3,69 |
| 0 | (-1) | 7,78 | 2,44 | 8,55 | 1,79 | 0,54 | 2,02 | 4,34 | 4,49 | 4,23 |
| 5 | (4) | 8,08 | 3,10 | 8,95 | 1,58 | 0,58 | 1,81 | 5,13 | 5,32 | 4,94 |
| 7 | (6) | 8,21 | 3,46 | 9,20 | 1,47 | 0,60 | 1,73 | 5,57 | 5,81 | 5,32 |
| 10 | (9) | 8,12 | 2,72 | 9,28 | 1,33 | 0,42 | 1,59 | 6,12 | 6,41 | 5,84 |
| 15 | (14) | 8,32 | 3,69 | 9,39 | 1,09 | 0,46 | 1,33 | 7,60 | 8,03 | 7,09 |
| 20 | (19) | 8,46 | 4,66 | 9,51 | 0,94 | 0,49 | 1,14 | 9,00 | 9,52 | 8,33 |
| 25 | (24) | 8,17 | 5,31 | 9,00 | 0,86 | 0,53 | 1,03 | 9,52 | 10,10 | 8,75 |
| 30 | (29) | 7,75 | 5,22 | 8,49 | 0,77 | 0,49 | 0,93 | 10,00 | 10,60 | 9,16 |
| 35 | (34) | 8,13 | 6,00 | 8,83 | 0,78 | 0,54 | 0,93 | 10,40 | 11,00 | 9,45 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | | | | | | | |
| -25 | (-26) | 3,27 | 2,48 | 3,59 | 1,96 | 1,46 | 2,19 | 1,67 | 1,69 | 1,64 |
| -20 | (-21) | 4,27 | 2,75 | 4,74 | 1,97 | 1,24 | 2,24 | 2,17 | 2,22 | 2,11 |
| -15 | (-16) | 5,45 | 2,91 | 6,11 | 2,15 | 1,12 | 2,51 | 2,53 | 2,59 | 2,43 |
| -10 | (-11) | 6,25 | 2,80 | 7,08 | 1,92 | 0,84 | 2,25 | 3,26 | 3,35 | 3,15 |
| -7 | (-8) | 7,00 | 1,82 | 7,27 | 2,19 | 0,53 | 2,26 | 3,20 | 3,44 | 3,21 |
| -5 | (-6) | 6,69 | 2,17 | 7,69 | 2,00 | 0,63 | 2,39 | 3,35 | 3,44 | 3,22 |
| 0 | (-1) | 7,67 | 2,37 | 8,49 | 1,98 | 0,59 | 2,25 | 3,88 | 4,01 | 3,77 |
| 5 | (4) | 8,08 | 3,06 | 9,03 | 1,71 | 0,62 | 1,98 | 4,73 | 4,91 | 4,56 |
| 7 | (6) | 8,40 | 3,36 | 9,11 | 1,63 | 0,61 | 1,80 | 5,15 | 5,54 | 5,07 |
| 10 | (9) | 7,89 | 2,83 | 8,94 | 1,41 | 0,48 | 1,65 | 5,58 | 5,85 | 5,42 |
| 15 | (14) | 8,11 | 3,55 | 9,09 | 1,27 | 0,53 | 1,51 | 6,37 | 6,73 | 6,04 |
| 20 | (19) | 8,37 | 4,94 | 9,33 | 1,11 | 0,62 | 1,32 | 7,53 | 7,98 | 7,09 |
| 25 | (24) | 8,01 | 5,51 | 8,75 | 0,98 | 0,64 | 1,15 | 8,18 | 8,66 | 7,64 |
| 30 | (29) | 7,52 | 5,35 | 8,17 | 0,90 | 0,60 | 1,05 | 8,39 | 8,88 | 7,78 |
| 35 | (34) | 7,89 | 5,58 | 8,50 | 0,90 | 0,60 | 1,06 | 8,74 | 9,26 | 8,05 |

MAGIS M8

5.1 MAGIS M8 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 40 °C | | | | | | | | |
| -25 | (-26) | 3,10 | 2,37 | 3,34 | 1,99 | 1,50 | 2,15 | 1,56 | 1,58 | 1,55 |
| -20 | (-21) | 3,96 | 2,76 | 4,32 | 2,20 | 1,51 | 2,44 | 1,80 | 1,83 | 1,77 |
| -15 | (-16) | 5,04 | 3,12 | 5,57 | 2,18 | 1,31 | 2,47 | 2,32 | 2,37 | 2,26 |
| -10 | (-11) | 6,16 | 3,57 | 6,87 | 2,30 | 1,30 | 2,63 | 2,68 | 2,76 | 2,62 |
| -7 | (-8) | 6,71 | 3,12 | 7,05 | 2,40 | 1,07 | 2,64 | 2,79 | 2,90 | 2,67 |
| -5 | (-6) | 6,56 | 3,23 | 7,45 | 2,14 | 1,03 | 2,57 | 3,06 | 3,15 | 2,90 |
| 0 | (-1) | 7,74 | 3,62 | 8,40 | 2,30 | 1,04 | 2,53 | 3,37 | 3,48 | 3,32 |
| 5 | (4) | 8,03 | 4,05 | 8,78 | 2,04 | 0,99 | 2,29 | 3,93 | 4,08 | 3,84 |
| 7 | (6) | 8,00 | 4,17 | 8,85 | 1,84 | 0,92 | 2,12 | 4,34 | 4,53 | 4,18 |
| 10 | (9) | 7,77 | 3,92 | 8,70 | 1,74 | 0,83 | 2,02 | 4,48 | 4,70 | 4,30 |
| 15 | (14) | 8,20 | 4,20 | 9,07 | 1,50 | 0,73 | 1,77 | 5,46 | 5,76 | 5,12 |
| 20 | (19) | 8,58 | 5,95 | 9,45 | 1,35 | 0,88 | 1,59 | 6,37 | 6,74 | 5,93 |
| 25 | (24) | 8,47 | 6,68 | 9,15 | 1,23 | 0,92 | 1,44 | 6,86 | 7,26 | 6,34 |
| 30 | (29) | 8,24 | 6,06 | 8,85 | 1,11 | 0,77 | 1,29 | 7,46 | 7,89 | 6,84 |
| 35 | (34) | 8,64 | 6,35 | 9,20 | 1,12 | 0,77 | 1,31 | 7,74 | 8,20 | 7,05 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | | | | | | | |
| -25 | (-26) | 2,64 | 1,77 | 2,81 | 2,05 | 1,37 | 2,17 | 1,29 | 1,29 | 1,30 |
| -20 | (-21) | 3,43 | 2,29 | 3,70 | 2,11 | 1,40 | 2,29 | 1,62 | 1,64 | 1,61 |
| -15 | (-16) | 4,69 | 3,38 | 5,29 | 2,31 | 1,64 | 2,65 | 2,03 | 2,06 | 2,00 |
| -10 | (-11) | 6,14 | 4,10 | 6,77 | 2,46 | 1,61 | 2,74 | 2,50 | 2,55 | 2,47 |
| -7 | (-8) | 6,60 | 3,41 | 6,94 | 2,59 | 1,28 | 2,76 | 2,55 | 2,67 | 2,52 |
| -5 | (-6) | 6,49 | 3,60 | 7,44 | 2,33 | 1,27 | 2,77 | 2,79 | 2,84 | 2,69 |
| 0 | (-1) | 7,16 | 3,57 | 8,09 | 2,35 | 1,14 | 2,75 | 3,05 | 3,12 | 2,94 |
| 5 | (4) | 7,62 | 4,09 | 8,69 | 2,15 | 1,12 | 2,57 | 3,54 | 3,64 | 3,38 |
| 7 | (6) | 8,10 | 4,85 | 8,98 | 2,10 | 1,17 | 2,35 | 3,85 | 4,15 | 3,82 |
| 10 | (9) | 7,91 | 4,73 | 8,74 | 2,00 | 1,15 | 2,24 | 3,95 | 4,11 | 3,90 |
| 15 | (14) | 8,15 | 4,94 | 8,91 | 1,79 | 1,04 | 2,03 | 4,55 | 4,77 | 4,38 |
| 20 | (19) | 8,36 | 5,63 | 9,08 | 1,59 | 1,02 | 1,81 | 5,25 | 5,51 | 5,02 |
| 25 | (24) | 8,44 | 6,48 | 9,01 | 1,38 | 1,01 | 1,55 | 6,11 | 6,42 | 5,80 |
| 30 | (29) | 8,42 | 6,56 | 8,93 | 1,27 | 0,94 | 1,43 | 6,61 | 6,95 | 6,23 |
| 35 | (34) | 8,83 | 6,87 | 9,29 | 1,30 | 0,96 | 1,46 | 6,77 | 7,12 | 6,34 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | 2,96 | 2,19 | 3,17 | 2,08 | 1,52 | 2,26 | 1,42 | 1,44 | 1,41 |
| -15 | (-16) | 4,16 | 3,22 | 4,67 | 2,36 | 1,80 | 2,70 | 1,76 | 1,79 | 1,73 |
| -10 | (-11) | 5,75 | 4,29 | 6,32 | 2,58 | 1,88 | 2,88 | 2,23 | 2,28 | 2,20 |
| -7 | (-8) | 6,17 | 3,38 | 6,48 | 2,67 | 1,44 | 2,89 | 2,31 | 2,35 | 2,24 |
| -5 | (-6) | 6,29 | 3,78 | 7,35 | 2,48 | 1,46 | 2,99 | 2,54 | 2,59 | 2,46 |
| 0 | (-1) | 7,39 | 4,12 | 8,11 | 2,64 | 1,44 | 2,95 | 2,79 | 2,86 | 2,75 |
| 5 | (4) | 7,50 | 4,47 | 8,30 | 2,43 | 1,41 | 2,76 | 3,09 | 3,18 | 3,00 |
| 7 | (6) | 7,53 | 5,23 | 8,43 | 2,29 | 1,54 | 2,66 | 3,29 | 3,40 | 3,17 |
| 10 | (9) | 7,65 | 4,99 | 8,28 | 2,18 | 1,37 | 2,42 | 3,51 | 3,65 | 3,42 |
| 15 | (14) | 7,85 | 5,19 | 8,41 | 1,98 | 1,25 | 2,23 | 3,96 | 4,15 | 3,77 |
| 20 | (19) | 8,01 | 5,55 | 8,53 | 1,79 | 1,18 | 2,02 | 4,47 | 4,69 | 4,22 |
| 25 | (24) | 8,23 | 6,46 | 8,61 | 1,68 | 1,25 | 1,87 | 4,91 | 5,16 | 4,61 |
| 30 | (29) | 8,35 | 6,73 | 8,68 | 1,56 | 1,20 | 1,74 | 5,36 | 5,63 | 4,99 |
| 35 | (34) | 8,75 | 7,22 | 9,03 | 1,55 | 1,22 | 1,73 | 5,63 | 5,92 | 5,21 |

5.2 MAGIS M8 “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 55 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | 2,52 | 1,91 | 2,62 | 2,00 | 1,51 | 2,10 | 1,25 | 1,27 | 1,25 |
| -15 | (-16) | 4,55 | 3,36 | 4,94 | 2,65 | 1,92 | 2,92 | 1,72 | 1,75 | 1,69 |
| -10 | (-11) | 5,53 | 4,20 | 6,07 | 2,75 | 2,05 | 3,05 | 2,01 | 2,05 | 1,99 |
| -7 | (-8) | 6,15 | 3,57 | 6,22 | 3,00 | 1,67 | 3,07 | 2,05 | 2,13 | 2,03 |
| -5 | (-6) | 5,56 | 3,65 | 6,45 | 2,46 | 1,59 | 2,94 | 2,26 | 2,30 | 2,19 |
| 0 | (-1) | 6,33 | 3,80 | 7,10 | 2,63 | 1,54 | 2,99 | 2,41 | 2,47 | 2,38 |
| 5 | (4) | 6,68 | 4,28 | 7,56 | 2,37 | 1,47 | 2,74 | 2,82 | 2,91 | 2,76 |
| 7 | (6) | 7,50 | 4,95 | 7,80 | 2,36 | 1,49 | 2,50 | 3,18 | 3,33 | 3,12 |
| 10 | (9) | 7,14 | 5,17 | 8,20 | 2,11 | 1,47 | 2,48 | 3,38 | 3,51 | 3,31 |
| 15 | (14) | 7,33 | 5,99 | 8,32 | 1,99 | 1,55 | 2,34 | 3,68 | 3,86 | 3,55 |
| 20 | (19) | 7,47 | 5,65 | 8,43 | 1,80 | 1,30 | 2,12 | 4,14 | 4,35 | 3,97 |
| 25 | (24) | 7,31 | 5,81 | 8,09 | 1,64 | 1,24 | 1,90 | 4,47 | 4,69 | 4,25 |
| 30 | (29) | 7,13 | 5,83 | 7,84 | 1,49 | 1,16 | 1,73 | 4,80 | 5,04 | 4,53 |
| 35 | (34) | 7,48 | 6,36 | 8,16 | 1,49 | 1,20 | 1,80 | 5,03 | 5,29 | 4,72 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | 3,72 | 2,84 | 3,99 | 2,64 | 1,99 | 2,84 | 1,41 | 1,43 | 1,41 |
| -10 | (-11) | 4,78 | 3,72 | 5,19 | 2,65 | 2,02 | 2,86 | 1,81 | 1,84 | 1,81 |
| -7 | (-8) | 5,07 | 3,42 | 5,32 | 2,69 | 1,78 | 2,88 | 1,89 | 1,92 | 1,85 |
| -5 | (-6) | 5,38 | 3,71 | 6,04 | 2,62 | 1,77 | 3,00 | 2,05 | 2,09 | 2,02 |
| 0 | (-1) | 6,03 | 4,06 | 6,85 | 2,78 | 1,83 | 3,16 | 2,17 | 2,22 | 2,17 |
| 5 | (4) | 6,21 | 4,43 | 7,11 | 2,50 | 1,73 | 2,89 | 2,49 | 2,56 | 2,46 |
| 7 | (6) | 6,25 | 4,76 | 7,24 | 2,25 | 1,66 | 2,66 | 2,77 | 2,87 | 2,72 |
| 10 | (9) | 6,89 | 5,02 | 7,50 | 2,45 | 1,72 | 2,72 | 2,81 | 2,92 | 2,76 |
| 15 | (14) | 7,13 | 5,60 | 7,68 | 2,24 | 1,74 | 2,49 | 3,19 | 3,23 | 3,09 |
| 20 | (19) | 7,34 | 5,26 | 7,86 | 2,11 | 1,44 | 2,27 | 3,47 | 3,65 | 3,46 |
| 25 | (24) | 7,10 | 5,45 | 7,46 | 1,89 | 1,38 | 2,01 | 3,76 | 3,96 | 3,72 |
| 30 | (29) | 6,77 | 5,34 | 7,07 | 1,67 | 1,25 | 1,78 | 4,06 | 4,27 | 3,98 |
| 35 | (34) | - | - | - | - | - | - | - | - | - |
| d.b. | (w.b.) | Water flow temperature 65 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | - | - | - | - | - | - | - | - | - |
| -10 | (-11) | - | - | - | - | - | - | - | - | - |
| -7 | (-8) | - | - | - | - | - | - | - | - | - |
| -5 | (-6) | - | - | - | - | - | - | - | - | - |
| 0 | (-1) | - | - | - | - | - | - | - | - | - |
| 5 | (4) | 3,32 | 2,47 | 3,89 | 2,72 | 1,99 | 3,27 | 1,22 | 1,24 | 1,19 |
| 7 | (6) | 3,44 | 2,69 | 4,08 | 2,46 | 1,89 | 3,00 | 1,40 | 1,42 | 1,36 |
| 10 | (9) | 4,92 | 3,80 | 5,59 | 2,27 | 1,72 | 2,65 | 2,16 | 2,22 | 2,11 |
| 15 | (14) | 5,19 | 3,82 | 5,71 | 2,11 | 1,52 | 2,39 | 2,46 | 2,52 | 2,39 |
| 20 | (19) | - | - | - | - | - | - | - | - | - |
| 25 | (24) | - | - | - | - | - | - | - | - | - |
| 30 | (29) | - | - | - | - | - | - | - | - | - |
| 35 | (34) | - | - | - | - | - | - | - | - | - |

MAGIS M8

6 MAGIS M8 “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--|-------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. Water flow temperature 5 °C | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | 4,43 | 2,24 | 5,68 | 0,85 | 0,41 | 1,15 | 5,21 | 5,42 | 4,96 |
| 25 | 5,13 | 2,46 | 6,47 | 1,11 | 0,52 | 1,48 | 4,61 | 4,73 | 4,36 |
| 30 | 5,84 | 2,78 | 7,27 | 1,42 | 0,66 | 1,89 | 4,10 | 4,19 | 3,85 |
| 35 | 5,75 | 2,62 | 7,39 | 1,67 | 0,74 | 2,25 | 3,45 | 3,54 | 3,28 |
| 40 | 5,40 | 2,44 | 6,61 | 1,92 | 0,87 | 2,52 | 2,81 | 2,80 | 2,62 |
| 43 | 4,18 | 1,43 | 5,09 | 1,80 | 0,60 | 2,28 | 2,32 | 2,37 | 2,23 |
| d.b. Water flow temperature 10 °C | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | 4,48 | 2,75 | 5,97 | 0,62 | 0,36 | 0,87 | 7,24 | 7,69 | 6,84 |
| 20 | 5,71 | 2,50 | 7,06 | 0,97 | 0,41 | 1,29 | 5,86 | 6,12 | 5,46 |
| 25 | 6,42 | 2,66 | 7,82 | 1,24 | 0,49 | 1,63 | 5,17 | 5,43 | 4,81 |
| 30 | 7,14 | 2,93 | 8,57 | 1,57 | 0,62 | 2,01 | 4,54 | 4,76 | 4,25 |
| 35 | 7,20 | 3,34 | 8,77 | 1,76 | 0,78 | 2,31 | 4,09 | 4,28 | 3,80 |
| 40 | 6,27 | 2,94 | 7,42 | 1,86 | 0,84 | 2,37 | 3,38 | 3,48 | 3,14 |
| 43 | 4,44 | 2,12 | 5,64 | 1,66 | 0,77 | 2,19 | 2,67 | 2,76 | 2,58 |
| d.b. Water flow temperature 15 °C | | | | | | | | | |
| 5 | 4,77 | 2,57 | 5,96 | 0,60 | 0,30 | 0,82 | 7,96 | 8,55 | 7,30 |
| 10 | 5,05 | 2,80 | 6,29 | 0,54 | 0,28 | 0,74 | 9,32 | 10,11 | 8,54 |
| 15 | 6,16 | 3,30 | 7,33 | 0,79 | 0,39 | 0,99 | 7,83 | 8,37 | 7,38 |
| 20 | 6,99 | 3,47 | 8,38 | 1,04 | 0,49 | 1,35 | 6,69 | 7,09 | 6,22 |
| 25 | 7,84 | 3,71 | 9,26 | 1,33 | 0,60 | 1,68 | 5,87 | 6,18 | 5,52 |
| 30 | 8,71 | 4,08 | 10,15 | 1,65 | 0,74 | 2,06 | 5,28 | 5,53 | 4,93 |
| 35 | 8,42 | 4,21 | 10,21 | 1,76 | 0,82 | 2,31 | 4,77 | 5,12 | 4,43 |
| 40 | 7,73 | 3,79 | 8,88 | 2,04 | 0,97 | 2,53 | 3,79 | 3,93 | 3,51 |
| 43 | 5,36 | 2,80 | 6,73 | 1,61 | 0,81 | 2,13 | 3,32 | 3,46 | 3,16 |

6.1 MAGIS M8 “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 20 °C | | | | | | | | |
| 5 | 5,05 | 2,74 | 6,30 | 0,52 | 0,27 | 0,72 | 9,69 | 10,29 | 8,69 |
| 10 | 6,37 | 3,56 | 7,91 | 0,60 | 0,31 | 0,84 | 10,55 | 11,31 | 9,45 |
| 15 | 7,83 | 3,92 | 9,11 | 0,90 | 0,41 | 1,15 | 8,70 | 9,62 | 7,94 |
| 20 | 8,87 | 4,88 | 10,31 | 1,28 | 0,67 | 1,60 | 6,95 | 7,33 | 6,43 |
| 25 | 9,82 | 5,18 | 11,25 | 1,52 | 0,76 | 1,90 | 6,46 | 6,78 | 5,92 |
| 30 | 10,80 | 5,64 | 12,20 | 1,82 | 0,90 | 2,20 | 5,94 | 6,28 | 5,54 |
| 35 | 10,25 | 5,46 | 11,74 | 1,95 | 0,96 | 2,40 | 5,26 | 5,70 | 4,89 |
| 40 | 9,18 | 4,91 | 10,23 | 2,06 | 1,06 | 2,51 | 4,47 | 4,64 | 4,07 |
| 43 | 6,98 | 3,55 | 8,15 | 1,72 | 0,85 | 2,17 | 4,06 | 4,18 | 3,75 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 25 °C | | | | | | | | |
| 5 | 5,50 | 2,96 | 6,78 | 0,51 | 0,26 | 0,69 | 10,76 | 11,57 | 9,78 |
| 10 | 6,75 | 3,75 | 8,30 | 0,58 | 0,30 | 0,79 | 11,60 | 12,59 | 10,53 |
| 15 | 8,17 | 4,67 | 9,73 | 0,86 | 0,44 | 1,12 | 9,55 | 10,61 | 8,67 |
| 20 | 9,71 | 5,51 | 11,15 | 1,29 | 0,69 | 1,64 | 7,50 | 7,93 | 6,81 |
| 25 | 11,26 | 6,12 | 12,76 | 1,59 | 0,82 | 2,02 | 7,09 | 7,44 | 6,33 |
| 30 | 12,86 | 6,92 | 14,36 | 1,95 | 1,01 | 2,40 | 6,61 | 6,86 | 6,00 |
| 35 | 12,39 | 6,82 | 13,59 | 2,09 | 1,07 | 2,50 | 5,94 | 6,36 | 5,42 |
| 40 | 11,14 | 6,34 | 12,27 | 2,28 | 1,28 | 2,83 | 4,89 | 4,97 | 4,34 |
| 43 | 7,94 | 5,06 | 10,04 | 1,80 | 1,11 | 2,49 | 4,41 | 4,58 | 4,03 |

MAGIS M12 - 12 T

7 "MAGIS M12 - M12 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|-------|
| d.b. | (w.b.) | Water flow temperature 25 °C | | | | | | | | |
| -25 | (-26) | 5,16 | 3,44 | 6,03 | 2,24 | 1,46 | 2,78 | 2,30 | 2,36 | 2,17 |
| -20 | (-21) | 6,73 | 4,24 | 7,65 | 2,45 | 1,52 | 3,00 | 2,75 | 2,78 | 2,55 |
| -15 | (-16) | 7,43 | 4,85 | 8,90 | 2,41 | 1,54 | 3,12 | 3,09 | 3,16 | 2,85 |
| -10 | (-11) | 9,06 | 4,67 | 11,00 | 2,69 | 1,34 | 3,47 | 3,37 | 3,49 | 3,17 |
| -7 | (-8) | 11,10 | 4,61 | 12,30 | 3,11 | 1,17 | 3,52 | 3,57 | 3,94 | 3,49 |
| -5 | (-6) | 10,30 | 4,75 | 12,40 | 2,55 | 1,13 | 3,33 | 4,03 | 4,19 | 3,71 |
| 0 | (-1) | 9,93 | 4,99 | 12,40 | 2,09 | 1,01 | 2,87 | 4,75 | 4,96 | 4,35 |
| 5 | (4) | 11,80 | 5,91 | 14,60 | 1,95 | 0,93 | 2,66 | 6,05 | 6,35 | 5,49 |
| 7 | (6) | 12,90 | 6,15 | 15,50 | 1,96 | 0,88 | 2,57 | 6,57 | 6,98 | 6,00 |
| 10 | (9) | 11,80 | 6,10 | 15,00 | 1,72 | 0,84 | 2,40 | 6,88 | 7,24 | 6,22 |
| 15 | (14) | 12,00 | 5,93 | 15,10 | 1,41 | 0,66 | 1,97 | 8,56 | 8,96 | 7,67 |
| 20 | (19) | 11,50 | 5,81 | 14,60 | 1,16 | 0,56 | 1,66 | 9,86 | 10,30 | 8,76 |
| 25 | (24) | 11,40 | 5,89 | 14,40 | 1,09 | 0,54 | 1,55 | 10,50 | 11,00 | 9,31 |
| 30 | (29) | 11,70 | 6,83 | 14,60 | 1,04 | 0,58 | 1,45 | 11,30 | 11,80 | 10,10 |
| 35 | (34) | 12,40 | 7,23 | 15,20 | 1,02 | 0,56 | 1,39 | 12,10 | 12,80 | 10,90 |
| d.b. | (w.b.) | Water flow temperature 30 °C | | | | | | | | |
| -25 | (-26) | 5,32 | 3,72 | 6,26 | 2,32 | 1,59 | 2,91 | 2,29 | 2,35 | 2,15 |
| -20 | (-21) | 6,73 | 4,42 | 7,69 | 2,49 | 1,61 | 3,08 | 2,70 | 2,74 | 2,50 |
| -15 | (-16) | 7,35 | 5,00 | 8,86 | 2,55 | 1,70 | 3,34 | 2,88 | 2,94 | 2,65 |
| -10 | (-11) | 8,26 | 4,48 | 10,10 | 2,83 | 1,48 | 3,68 | 2,92 | 3,03 | 2,74 |
| -7 | (-8) | 10,30 | 3,85 | 10,90 | 3,26 | 1,15 | 3,62 | 3,15 | 3,36 | 3,02 |
| -5 | (-6) | 9,22 | 4,06 | 11,20 | 2,72 | 1,15 | 3,55 | 3,38 | 3,53 | 3,15 |
| 0 | (-1) | 9,35 | 4,64 | 11,90 | 2,29 | 1,08 | 3,13 | 4,09 | 4,28 | 3,80 |
| 5 | (4) | 10,80 | 5,34 | 13,50 | 2,18 | 1,03 | 2,97 | 4,94 | 5,19 | 4,55 |
| 7 | (6) | 11,90 | 5,53 | 14,20 | 2,19 | 0,96 | 2,83 | 5,44 | 5,79 | 5,04 |
| 10 | (9) | 11,20 | 5,72 | 14,40 | 1,87 | 0,91 | 2,62 | 5,99 | 6,31 | 5,49 |
| 15 | (14) | 11,60 | 5,78 | 14,70 | 1,58 | 0,75 | 2,21 | 7,32 | 7,68 | 6,65 |
| 20 | (19) | 11,10 | 5,73 | 14,30 | 1,32 | 0,65 | 1,88 | 8,45 | 8,85 | 7,60 |
| 25 | (24) | 11,20 | 5,85 | 14,30 | 1,22 | 0,61 | 1,73 | 9,15 | 9,58 | 8,23 |
| 30 | (29) | 11,20 | 6,96 | 14,20 | 1,16 | 0,69 | 1,62 | 9,66 | 10,10 | 8,75 |
| 35 | (34) | 12,00 | 7,43 | 14,90 | 1,17 | 0,69 | 1,60 | 10,20 | 10,80 | 9,29 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | | | | | | | |
| -25 | (-26) | 4,24 | 3,27 | 5,03 | 2,37 | 1,81 | 2,96 | 1,79 | 1,81 | 1,70 |
| -20 | (-21) | 6,25 | 4,08 | 7,21 | 2,72 | 1,75 | 3,34 | 2,30 | 2,33 | 2,16 |
| -15 | (-16) | 7,28 | 4,92 | 8,86 | 2,78 | 1,83 | 3,62 | 2,62 | 2,68 | 2,45 |
| -10 | (-11) | 8,14 | 4,36 | 10,00 | 3,06 | 1,59 | 3,95 | 2,66 | 2,74 | 2,54 |
| -7 | (-8) | 10,00 | 3,97 | 11,00 | 3,33 | 1,26 | 3,89 | 3,00 | 3,14 | 2,83 |
| -5 | (-6) | 9,05 | 4,18 | 11,30 | 2,89 | 1,28 | 3,87 | 3,13 | 3,26 | 2,92 |
| 0 | (-1) | 9,19 | 4,62 | 12,00 | 2,46 | 1,18 | 3,44 | 3,74 | 3,92 | 3,48 |
| 5 | (4) | 10,60 | 5,31 | 13,60 | 2,35 | 1,12 | 3,28 | 4,50 | 4,73 | 4,15 |
| 7 | (6) | 11,7 | 5,58 | 14,60 | 2,36 | 1,04 | 3,11 | 4,95 | 5,38 | 4,69 |
| 10 | (9) | 10,90 | 5,62 | 14,30 | 1,97 | 0,97 | 2,83 | 5,51 | 5,81 | 5,06 |
| 15 | (14) | 11,00 | 5,62 | 14,40 | 1,84 | 0,90 | 2,65 | 5,97 | 6,26 | 5,43 |
| 20 | (19) | 10,80 | 5,66 | 14,20 | 1,50 | 0,75 | 2,20 | 7,18 | 7,52 | 6,47 |
| 25 | (24) | 10,80 | 5,79 | 14,20 | 1,33 | 0,68 | 1,93 | 8,15 | 8,54 | 7,35 |
| 30 | (29) | 11,00 | 7,82 | 14,40 | 1,29 | 0,89 | 1,85 | 8,55 | 8,78 | 7,76 |
| 35 | (34) | 11,50 | 8,17 | 14,70 | 1,32 | 0,88 | 1,80 | 8,78 | 9,31 | 8,16 |

7.1 "MAGIS M12 - M12 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 40 °C | | | | | | | | |
| -25 | (-26) | 3,88 | 3,08 | 4,53 | 2,57 | 2,01 | 3,12 | 1,51 | 1,53 | 1,45 |
| -20 | (-21) | 5,62 | 3,72 | 6,38 | 2,85 | 1,86 | 3,41 | 1,97 | 2,00 | 1,87 |
| -15 | (-16) | 6,63 | 4,55 | 7,93 | 2,86 | 1,92 | 3,62 | 2,32 | 2,37 | 2,19 |
| -10 | (-11) | 8,00 | 4,39 | 9,69 | 3,45 | 1,84 | 4,34 | 2,32 | 2,38 | 2,23 |
| -7 | (-8) | 10,10 | 4,20 | 10,40 | 4,06 | 1,53 | 4,27 | 2,50 | 2,74 | 2,44 |
| -5 | (-6) | 8,87 | 4,52 | 10,90 | 3,19 | 1,56 | 4,26 | 2,78 | 2,90 | 2,57 |
| 0 | (-1) | 9,51 | 5,24 | 12,30 | 2,88 | 1,52 | 4,04 | 3,30 | 3,45 | 3,04 |
| 5 | (4) | 10,80 | 5,97 | 13,80 | 2,65 | 1,39 | 3,70 | 4,08 | 4,29 | 3,73 |
| 7 | (6) | 12,40 | 6,30 | 14,80 | 2,75 | 1,31 | 3,57 | 4,50 | 4,80 | 4,14 |
| 10 | (9) | 11,30 | 6,37 | 14,60 | 2,34 | 1,26 | 3,34 | 4,81 | 5,07 | 4,37 |
| 15 | (14) | 11,60 | 6,92 | 15,00 | 2,21 | 1,26 | 3,17 | 5,24 | 5,49 | 4,72 |
| 20 | (19) | 11,40 | 6,97 | 14,80 | 1,89 | 1,10 | 2,75 | 6,04 | 6,32 | 5,39 |
| 25 | (24) | 11,40 | 7,06 | 14,70 | 1,46 | 0,96 | 2,35 | 7,79 | 7,36 | 6,26 |
| 30 | (29) | 11,50 | 8,23 | 14,70 | 1,41 | 1,09 | 2,22 | 8,15 | 7,52 | 6,63 |
| 35 | (34) | 12,00 | 8,60 | 15,10 | 1,60 | 1,08 | 2,17 | 7,49 | 7,94 | 6,95 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | | | | | | | |
| -25 | (-26) | 3,66 | 2,83 | 4,23 | 2,82 | 2,17 | 3,29 | 1,30 | 1,30 | 1,28 |
| -20 | (-21) | 5,31 | 3,93 | 6,05 | 3,01 | 2,25 | 3,52 | 1,77 | 1,75 | 1,72 |
| -15 | (-16) | 6,04 | 4,73 | 7,39 | 3,13 | 2,45 | 3,95 | 1,93 | 1,93 | 1,87 |
| -10 | (-11) | 7,80 | 4,85 | 9,32 | 3,70 | 2,25 | 4,54 | 2,11 | 2,15 | 2,05 |
| -7 | (-8) | 10,20 | 5,41 | 10,40 | 4,25 | 2,14 | 4,50 | 2,40 | 2,52 | 2,31 |
| -5 | (-6) | 8,78 | 5,80 | 10,90 | 3,48 | 2,23 | 4,61 | 2,52 | 2,61 | 2,37 |
| 0 | (-1) | 9,43 | 6,70 | 12,30 | 3,14 | 2,15 | 4,37 | 3,00 | 3,11 | 2,81 |
| 5 | (4) | 10,60 | 7,49 | 13,60 | 3,01 | 2,05 | 4,18 | 3,51 | 3,66 | 3,26 |
| 7 | (6) | 12,30 | 7,88 | 14,50 | 3,32 | 1,92 | 4,00 | 3,70 | 4,10 | 3,63 |
| 10 | (9) | 10,90 | 7,92 | 14,30 | 2,74 | 1,90 | 3,89 | 3,99 | 4,16 | 3,69 |
| 15 | (14) | 11,20 | 8,09 | 14,60 | 2,48 | 1,72 | 3,53 | 4,52 | 4,69 | 4,14 |
| 20 | (19) | 11,20 | 8,27 | 14,80 | 2,17 | 1,54 | 3,15 | 5,16 | 5,36 | 4,69 |
| 25 | (24) | 11,20 | 8,39 | 14,70 | 1,89 | 1,36 | 2,73 | 5,93 | 6,16 | 5,39 |
| 30 | (29) | 11,40 | 8,52 | 14,70 | 1,93 | 1,38 | 2,63 | 5,88 | 6,18 | 5,59 |
| 35 | (34) | 11,50 | 8,58 | 14,60 | 1,86 | 1,32 | 2,50 | 6,17 | 6,49 | 5,83 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | 4,72 | 3,75 | 5,36 | 3,03 | 2,43 | 3,55 | 1,56 | 1,54 | 1,51 |
| -15 | (-16) | 5,51 | 4,63 | 6,71 | 3,14 | 2,64 | 3,97 | 1,75 | 1,75 | 1,69 |
| -10 | (-11) | 7,54 | 5,11 | 8,96 | 3,77 | 2,50 | 4,62 | 2,00 | 2,04 | 1,94 |
| -7 | (-8) | 10,30 | 5,73 | 10,60 | 4,48 | 2,41 | 4,74 | 2,29 | 2,37 | 2,24 |
| -5 | (-6) | 8,47 | 5,93 | 10,80 | 3,59 | 2,44 | 4,75 | 2,36 | 2,43 | 2,27 |
| 0 | (-1) | 8,13 | 6,12 | 11,10 | 3,22 | 2,49 | 4,61 | 2,52 | 2,45 | 2,41 |
| 5 | (4) | 9,75 | 7,30 | 12,80 | 3,22 | 2,32 | 4,46 | 3,03 | 3,15 | 2,88 |
| 7 | (6) | 12,20 | 7,83 | 13,90 | 3,75 | 2,26 | 4,43 | 3,25 | 3,46 | 3,14 |
| 10 | (9) | 10,10 | 7,76 | 13,50 | 2,93 | 2,13 | 4,11 | 3,44 | 3,63 | 3,30 |
| 15 | (14) | 10,10 | 8,28 | 13,40 | 2,66 | 2,08 | 3,73 | 3,79 | 3,98 | 3,60 |
| 20 | (19) | 10,10 | 8,52 | 13,70 | 2,35 | 1,88 | 3,37 | 4,32 | 4,53 | 4,06 |
| 25 | (24) | 10,40 | 8,81 | 13,90 | 2,11 | 1,70 | 3,00 | 4,93 | 5,18 | 4,63 |
| 30 | (29) | 10,50 | 8,95 | 14,00 | 2,01 | 1,62 | 2,82 | 5,24 | 5,51 | 4,95 |
| 35 | (34) | 11,00 | 9,27 | 14,20 | 1,96 | 1,58 | 2,72 | 5,58 | 5,87 | 5,24 |

MAGIS M12 - 12 T

7.2 "MAGIS M12 - M12 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 55 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | 4,63 | 3,60 | 5,08 | 3,30 | 2,58 | 3,63 | 1,40 | 1,39 | 1,40 |
| -15 | (-16) | 5,30 | 4,43 | 6,33 | 3,58 | 2,98 | 4,31 | 1,48 | 1,49 | 1,47 |
| -10 | (-11) | 7,24 | 5,33 | 8,60 | 3,91 | 2,83 | 4,79 | 1,85 | 1,89 | 1,79 |
| -7 | (-8) | 9,80 | 6,03 | 10,60 | 4,78 | 2,79 | 5,25 | 2,05 | 2,16 | 2,02 |
| -5 | (-6) | 8,36 | 6,12 | 10,60 | 3,91 | 2,79 | 5,14 | 2,14 | 2,20 | 2,05 |
| 0 | (-1) | 7,93 | 6,23 | 10,80 | 3,38 | 2,69 | 4,74 | 2,34 | 2,32 | 2,27 |
| 5 | (4) | 9,83 | 8,08 | 12,80 | 3,42 | 2,71 | 4,70 | 2,88 | 2,98 | 2,73 |
| 7 | (6) | 11,90 | 8,63 | 13,90 | 3,90 | 2,64 | 4,66 | 3,05 | 3,27 | 2,97 |
| 10 | (9) | 9,86 | 8,30 | 13,10 | 3,16 | 2,54 | 4,38 | 3,13 | 3,27 | 2,99 |
| 15 | (14) | 9,12 | 7,83 | 12,10 | 2,85 | 2,35 | 3,97 | 3,20 | 3,33 | 3,03 |
| 20 | (19) | 9,00 | 7,90 | 12,00 | 2,50 | 2,11 | 3,55 | 3,61 | 3,75 | 3,39 |
| 25 | (24) | 9,04 | 8,00 | 12,00 | 2,21 | 1,88 | 3,12 | 4,09 | 4,25 | 3,84 |
| 30 | (29) | 9,62 | 8,60 | 12,60 | 2,14 | 1,82 | 2,94 | 4,49 | 4,73 | 4,30 |
| 35 | (34) | 10,00 | 8,90 | 12,90 | 2,06 | 1,74 | 2,79 | 4,86 | 5,11 | 4,62 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | 4,96 | 4,22 | 5,87 | 4,01 | 3,39 | 4,69 | 1,24 | 1,25 | 1,25 |
| -10 | (-11) | 5,70 | 4,49 | 6,70 | 4,30 | 3,32 | 5,13 | 1,33 | 1,35 | 1,30 |
| -7 | (-8) | 7,23 | 5,23 | 8,05 | 4,42 | 3,11 | 5,06 | 1,64 | 1,68 | 1,59 |
| -5 | (-6) | 6,74 | 5,42 | 8,21 | 4,10 | 3,20 | 5,14 | 1,64 | 1,69 | 1,60 |
| 0 | (-1) | 6,70 | 5,75 | 8,52 | 3,83 | 3,18 | 5,03 | 1,75 | 1,81 | 1,69 |
| 5 | (4) | 9,21 | 7,87 | 11,60 | 3,86 | 3,18 | 5,06 | 2,38 | 2,48 | 2,29 |
| 7 | (6) | 10,80 | 8,71 | 13,00 | 4,06 | 3,13 | 5,07 | 2,66 | 2,79 | 2,56 |
| 10 | (9) | 9,92 | 8,68 | 12,70 | 3,62 | 3,03 | 4,79 | 2,74 | 2,87 | 2,65 |
| 15 | (14) | 9,66 | 8,73 | 12,30 | 3,26 | 2,83 | 4,32 | 2,97 | 3,09 | 2,85 |
| 20 | (19) | 8,37 | 7,72 | 10,80 | 2,74 | 2,43 | 3,71 | 3,06 | 3,18 | 2,90 |
| 25 | (24) | 7,85 | 7,29 | 10,00 | 2,50 | 2,23 | 3,36 | 3,14 | 3,27 | 2,99 |
| 30 | (29) | 8,17 | 7,34 | 10,30 | 2,58 | 2,20 | 3,40 | 3,17 | 3,33 | 3,04 |
| 35 | (34) | - | - | - | - | - | - | - | - | - |
| d.b. | (w.b.) | Water flow temperature 65 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | - | - | - | - | - | - | - | - | - |
| -15 | (-16) | - | - | - | - | - | - | - | - | - |
| -10 | (-11) | - | - | - | - | - | - | - | - | - |
| -7 | (-8) | - | - | - | - | - | - | - | - | - |
| -5 | (-6) | - | - | - | - | - | - | - | - | - |
| 0 | (-1) | - | - | - | - | - | - | - | - | - |
| 5 | (4) | 8,19 | 6,99 | 9,92 | 4,05 | 3,33 | 5,16 | 2,02 | 2,10 | 1,92 |
| 7 | (6) | 9,64 | 8,06 | 11,50 | 4,10 | 3,28 | 5,17 | 2,35 | 2,46 | 2,23 |
| 10 | (9) | 9,48 | 8,28 | 11,70 | 3,80 | 3,17 | 4,89 | 2,49 | 2,61 | 2,39 |
| 15 | (14) | 9,57 | 8,62 | 11,70 | 3,39 | 2,95 | 4,42 | 2,82 | 2,92 | 2,65 |
| 20 | (19) | - | - | - | - | - | - | - | - | - |
| 25 | (24) | - | - | - | - | - | - | - | - | - |
| 30 | (29) | - | - | - | - | - | - | - | - | - |
| 35 | (34) | - | - | - | - | - | - | - | - | - |

8 MAGIS M12 - M12 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 5 °C | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | 6,07 | 3,07 | 7,78 | 1,51 | 0,73 | 2,03 | 4,02 | 4,18 | 3,83 |
| 25 | 8,00 | 3,84 | 10,10 | 2,24 | 1,05 | 3,00 | 3,56 | 3,65 | 3,37 |
| 30 | 8,04 | 3,82 | 9,99 | 2,71 | 1,26 | 3,58 | 2,97 | 3,03 | 2,79 |
| 35 | 7,68 | 3,50 | 9,89 | 3,34 | 1,48 | 4,52 | 2,30 | 2,36 | 2,19 |
| 40 | 6,62 | 2,99 | 8,11 | 3,45 | 1,56 | 4,53 | 1,92 | 1,91 | 1,79 |
| 43 | 4,27 | 1,46 | 5,20 | 2,93 | 0,98 | 3,72 | 1,45 | 1,48 | 1,40 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 10 °C | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | 7,88 | 4,83 | 10,51 | 1,62 | 0,94 | 2,32 | 5,16 | 4,86 | 4,53 |
| 20 | 9,83 | 4,30 | 12,15 | 2,20 | 0,92 | 2,96 | 4,65 | 4,46 | 4,10 |
| 25 | 11,33 | 4,69 | 13,80 | 2,71 | 1,07 | 3,61 | 4,38 | 4,17 | 3,82 |
| 30 | 11,19 | 4,59 | 13,43 | 3,18 | 1,25 | 4,13 | 3,68 | 3,52 | 3,25 |
| 35 | 10,73 | 4,98 | 13,07 | 3,69 | 1,64 | 4,90 | 3,04 | 2,91 | 2,67 |
| 40 | 8,35 | 3,91 | 9,87 | 3,35 | 1,53 | 4,33 | 2,56 | 2,49 | 2,28 |
| 43 | 4,80 | 2,30 | 6,11 | 2,44 | 1,13 | 3,26 | 2,03 | 1,97 | 1,87 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 15 °C | | | | | | | | |
| 5 | 7,30 | 3,93 | 9,12 | 1,26 | 0,63 | 1,71 | 5,80 | 6,23 | 5,32 |
| 10 | 8,68 | 4,81 | 10,81 | 1,51 | 0,77 | 2,05 | 5,75 | 6,24 | 5,27 |
| 15 | 10,50 | 5,63 | 12,50 | 1,80 | 0,91 | 2,33 | 5,82 | 6,22 | 5,36 |
| 20 | 11,81 | 5,86 | 14,16 | 2,36 | 1,11 | 3,12 | 4,99 | 5,29 | 4,54 |
| 25 | 13,39 | 6,33 | 15,82 | 3,04 | 1,36 | 3,91 | 4,41 | 4,64 | 4,04 |
| 30 | 13,03 | 6,10 | 15,18 | 3,27 | 1,46 | 4,17 | 3,99 | 4,17 | 3,64 |
| 35 | 11,97 | 5,99 | 14,53 | 3,41 | 1,59 | 4,56 | 3,51 | 3,76 | 3,19 |
| 40 | 9,28 | 4,55 | 10,67 | 3,09 | 1,46 | 3,92 | 3,00 | 3,11 | 2,72 |
| 43 | 5,83 | 3,05 | 7,33 | 2,23 | 1,12 | 3,02 | 2,61 | 2,72 | 2,43 |

MAGIS M12 - 12 T

8.1 MAGIS M12 - M12 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 20 °C | | | | | | | | |
| 5 | 9,16 | 4,96 | 11,41 | 1,13 | 0,58 | 1,57 | 8,10 | 8,61 | 7,27 |
| 10 | 10,57 | 5,91 | 13,14 | 1,38 | 0,72 | 1,92 | 7,65 | 8,20 | 6,85 |
| 15 | 12,78 | 6,39 | 14,87 | 1,74 | 0,79 | 2,27 | 7,36 | 8,11 | 6,56 |
| 20 | 13,71 | 7,55 | 15,93 | 2,44 | 1,28 | 3,14 | 5,61 | 5,92 | 5,08 |
| 25 | 14,84 | 7,82 | 17,00 | 3,14 | 1,58 | 4,01 | 4,73 | 4,96 | 4,24 |
| 30 | 14,31 | 7,47 | 16,17 | 3,34 | 1,65 | 4,15 | 4,28 | 4,51 | 3,90 |
| 35 | 13,39 | 7,13 | 15,34 | 3,47 | 1,71 | 4,38 | 3,86 | 4,18 | 3,51 |
| 40 | 10,94 | 5,85 | 12,19 | 3,24 | 1,67 | 4,05 | 3,38 | 3,50 | 3,01 |
| 43 | 7,30 | 3,72 | 8,53 | 2,47 | 1,22 | 3,19 | 2,96 | 3,04 | 2,67 |
| d.b. | Water flow temperature 25 °C | | | | | | | | |
| 5 | 10,05 | 5,41 | 12,38 | 1,21 | 0,60 | 1,64 | 8,32 | 8,95 | 7,57 |
| 10 | 11,54 | 6,40 | 14,18 | 1,43 | 0,73 | 1,94 | 8,07 | 8,75 | 7,32 |
| 15 | 13,43 | 7,67 | 15,98 | 1,67 | 0,86 | 2,24 | 8,05 | 8,92 | 7,14 |
| 20 | 14,39 | 8,16 | 16,53 | 2,19 | 1,18 | 2,84 | 6,56 | 6,93 | 5,82 |
| 25 | 15,07 | 8,19 | 17,07 | 2,65 | 1,38 | 3,44 | 5,68 | 5,95 | 4,96 |
| 30 | 14,43 | 7,77 | 16,11 | 2,97 | 1,54 | 3,74 | 4,86 | 5,04 | 4,31 |
| 35 | 13,91 | 7,66 | 15,26 | 3,26 | 1,68 | 4,00 | 4,27 | 4,56 | 3,81 |
| 40 | 12,00 | 6,83 | 13,23 | 2,97 | 1,66 | 3,77 | 4,05 | 4,12 | 3,51 |
| 43 | 8,44 | 5,38 | 10,68 | 2,30 | 1,42 | 3,26 | 3,66 | 3,80 | 3,27 |

9 MAGIS M14 - M14 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|-------|
| d.b. | (w.b.) | Water flow temperature 25 °C | | | | | | | | |
| -25 | (-26) | 5,65 | 3,76 | 6,60 | 2,48 | 1,62 | 3,09 | 2,27 | 2,33 | 2,14 |
| -20 | (-21) | 7,27 | 4,58 | 8,26 | 2,63 | 1,63 | 3,22 | 2,77 | 2,80 | 2,57 |
| -15 | (-16) | 8,03 | 5,24 | 9,61 | 2,63 | 1,68 | 3,40 | 3,06 | 3,13 | 2,82 |
| -10 | (-11) | 9,80 | 5,05 | 11,90 | 2,96 | 1,47 | 3,81 | 3,31 | 3,44 | 3,12 |
| -7 | (-8) | 12,70 | 5,14 | 13,70 | 3,56 | 1,34 | 4,02 | 3,56 | 3,84 | 3,41 |
| -5 | (-6) | 11,60 | 5,35 | 13,90 | 2,89 | 1,28 | 3,78 | 4,00 | 4,17 | 3,68 |
| 0 | (-1) | 11,40 | 5,73 | 14,30 | 2,48 | 1,19 | 3,40 | 4,59 | 4,80 | 4,21 |
| 5 | (4) | 12,40 | 6,23 | 15,40 | 2,15 | 1,03 | 2,93 | 5,78 | 6,07 | 5,25 |
| 7 | (6) | 15,20 | 6,48 | 16,30 | 2,43 | 0,96 | 2,81 | 6,26 | 6,75 | 5,80 |
| 10 | (9) | 12,30 | 6,34 | 15,50 | 1,63 | 0,80 | 2,28 | 7,53 | 7,93 | 6,81 |
| 15 | (14) | 12,20 | 6,01 | 15,30 | 1,43 | 0,67 | 2,01 | 8,50 | 8,90 | 7,62 |
| 20 | (19) | 11,70 | 5,95 | 14,90 | 1,25 | 0,60 | 1,78 | 9,40 | 9,84 | 8,35 |
| 25 | (24) | 11,80 | 6,09 | 14,90 | 1,15 | 0,57 | 1,64 | 10,20 | 10,70 | 9,08 |
| 30 | (29) | 12,20 | 7,11 | 15,30 | 1,11 | 0,62 | 1,55 | 11,00 | 11,50 | 9,82 |
| 35 | (34) | 13,00 | 7,63 | 16,00 | 1,06 | 0,59 | 1,45 | 12,30 | 13,00 | 11,10 |
| d.b. | (w.b.) | Water flow temperature 30 °C | | | | | | | | |
| -25 | (-26) | 5,75 | 4,02 | 6,76 | 2,55 | 1,74 | 3,20 | 2,25 | 2,30 | 2,11 |
| -20 | (-21) | 7,27 | 4,77 | 8,30 | 2,67 | 1,73 | 3,30 | 2,72 | 2,76 | 2,52 |
| -15 | (-16) | 7,94 | 5,40 | 9,57 | 2,79 | 1,85 | 3,65 | 2,85 | 2,91 | 2,62 |
| -10 | (-11) | 9,36 | 5,08 | 11,40 | 3,22 | 1,68 | 4,18 | 2,91 | 3,02 | 2,73 |
| -7 | (-8) | 12,20 | 4,55 | 12,90 | 3,94 | 1,35 | 4,28 | 3,09 | 3,36 | 3,02 |
| -5 | (-6) | 10,80 | 4,78 | 13,20 | 2,96 | 1,25 | 3,87 | 3,66 | 3,81 | 3,41 |
| 0 | (-1) | 10,80 | 5,34 | 13,70 | 2,58 | 1,22 | 3,54 | 4,17 | 4,36 | 3,87 |
| 5 | (4) | 11,90 | 5,89 | 14,90 | 2,42 | 1,14 | 3,30 | 4,90 | 5,15 | 4,51 |
| 7 | (6) | 14,50 | 6,03 | 15,60 | 2,77 | 1,06 | 3,15 | 5,24 | 5,68 | 4,94 |
| 10 | (9) | 12,10 | 6,18 | 15,50 | 2,07 | 1,00 | 2,89 | 5,85 | 6,16 | 5,36 |
| 15 | (14) | 11,90 | 5,97 | 15,20 | 1,87 | 0,89 | 2,62 | 6,37 | 6,68 | 5,79 |
| 20 | (19) | 11,50 | 5,93 | 14,80 | 1,54 | 0,76 | 2,20 | 7,49 | 7,85 | 6,74 |
| 25 | (24) | 11,60 | 6,05 | 14,70 | 1,35 | 0,68 | 1,92 | 8,55 | 8,95 | 7,69 |
| 30 | (29) | 11,70 | 7,26 | 14,80 | 1,29 | 0,76 | 1,80 | 9,07 | 9,49 | 8,21 |
| 35 | (34) | 12,40 | 7,69 | 15,40 | 1,25 | 0,73 | 1,70 | 9,93 | 10,50 | 9,04 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | | | | | | | |
| -25 | (-26) | 4,57 | 3,54 | 5,43 | 2,55 | 1,94 | 3,18 | 1,79 | 1,82 | 1,71 |
| -20 | (-21) | 6,75 | 4,40 | 7,79 | 2,92 | 1,87 | 3,58 | 2,32 | 2,35 | 2,18 |
| -15 | (-16) | 7,86 | 5,31 | 9,57 | 3,03 | 2,00 | 3,94 | 2,60 | 2,66 | 2,43 |
| -10 | (-11) | 8,89 | 4,76 | 11,00 | 3,43 | 1,79 | 4,44 | 2,59 | 2,66 | 2,47 |
| -7 | (-8) | 12,00 | 4,57 | 12,70 | 4,21 | 1,48 | 4,55 | 2,85 | 3,10 | 2,79 |
| -5 | (-6) | 9,98 | 4,61 | 12,50 | 3,11 | 1,38 | 4,16 | 3,21 | 3,34 | 2,99 |
| 0 | (-1) | 9,52 | 4,79 | 12,40 | 2,72 | 1,31 | 3,82 | 3,50 | 3,66 | 3,26 |
| 5 | (4) | 11,10 | 5,58 | 14,30 | 2,60 | 1,24 | 3,63 | 4,27 | 4,49 | 3,94 |
| 7 | (6) | 14,50 | 5,92 | 15,50 | 3,15 | 1,12 | 3,37 | 4,60 | 5,27 | 4,59 |
| 10 | (9) | 11,30 | 5,84 | 14,90 | 2,17 | 1,06 | 3,10 | 5,22 | 5,50 | 4,79 |
| 15 | (14) | 11,60 | 5,93 | 15,20 | 2,05 | 1,00 | 2,94 | 5,67 | 5,94 | 5,16 |
| 20 | (19) | 11,10 | 5,83 | 14,60 | 1,77 | 0,89 | 2,59 | 6,27 | 6,57 | 5,65 |
| 25 | (24) | 11,10 | 5,96 | 14,60 | 1,63 | 0,83 | 2,38 | 6,82 | 7,15 | 6,15 |
| 30 | (29) | 11,40 | 8,10 | 14,90 | 1,46 | 1,01 | 2,10 | 7,81 | 8,02 | 7,09 |
| 35 | (34) | 11,80 | 8,32 | 15,00 | 1,36 | 0,91 | 1,87 | 8,63 | 9,15 | 8,02 |

MAGIS M14 - 14 T

9.1 MAGIS M14 - M14 T “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass. (kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|----------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 40 °C | | | | | | | | |
| -25 | (-26) | 4,19 | 3,33 | 4,89 | 2,76 | 2,17 | 3,35 | 1,51 | 1,54 | 1,46 |
| -20 | (-21) | 6,07 | 4,02 | 6,89 | 3,06 | 1,99 | 3,65 | 1,99 | 2,02 | 1,89 |
| -15 | (-16) | 7,16 | 4,91 | 8,57 | 3,12 | 2,09 | 3,95 | 2,29 | 2,35 | 2,17 |
| -10 | (-11) | 8,76 | 4,80 | 10,60 | 3,74 | 1,99 | 4,70 | 2,34 | 2,41 | 2,26 |
| -7 | (-8) | 11,90 | 4,96 | 12,30 | 4,46 | 1,77 | 4,94 | 2,66 | 2,80 | 2,49 |
| -5 | (-6) | 10,20 | 5,19 | 12,60 | 3,45 | 1,69 | 4,61 | 2,95 | 3,07 | 2,73 |
| 0 | (-1) | 10,10 | 5,57 | 13,00 | 3,08 | 1,63 | 4,32 | 3,27 | 3,42 | 3,01 |
| 5 | (4) | 11,20 | 6,18 | 14,30 | 2,83 | 1,49 | 3,95 | 3,96 | 4,16 | 3,61 |
| 7 | (6) | 14,60 | 6,64 | 15,60 | 3,52 | 1,42 | 3,86 | 4,15 | 4,68 | 4,04 |
| 10 | (9) | 11,80 | 6,66 | 15,30 | 2,52 | 1,35 | 3,60 | 4,67 | 4,92 | 4,24 |
| 15 | (14) | 12,30 | 7,33 | 15,80 | 2,49 | 1,42 | 3,56 | 4,94 | 5,18 | 4,45 |
| 20 | (19) | 11,70 | 7,16 | 15,20 | 2,08 | 1,22 | 3,04 | 5,62 | 5,88 | 5,01 |
| 25 | (24) | 11,50 | 7,17 | 14,90 | 1,66 | 1,10 | 2,68 | 6,93 | 6,54 | 5,57 |
| 30 | (29) | 11,70 | 8,43 | 15,10 | 1,54 | 1,20 | 2,42 | 7,64 | 7,05 | 6,22 |
| 35 | (34) | 12,30 | 8,83 | 15,50 | 1,67 | 1,13 | 2,26 | 7,39 | 7,84 | 6,86 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | | | | | | | |
| -25 | (-26) | 3,88 | 3,00 | 4,47 | 2,97 | 2,29 | 3,47 | 1,30 | 1,31 | 1,29 |
| -20 | (-21) | 5,48 | 4,06 | 6,25 | 3,08 | 2,31 | 3,61 | 1,78 | 1,76 | 1,73 |
| -15 | (-16) | 6,24 | 4,88 | 7,63 | 3,26 | 2,56 | 4,12 | 1,91 | 1,91 | 1,85 |
| -10 | (-11) | 8,07 | 5,01 | 9,64 | 3,85 | 2,35 | 4,73 | 2,09 | 2,13 | 2,04 |
| -7 | (-8) | 11,80 | 6,21 | 11,90 | 5,02 | 2,46 | 5,17 | 2,35 | 2,52 | 2,31 |
| -5 | (-6) | 9,68 | 6,40 | 12,10 | 3,77 | 2,41 | 4,99 | 2,57 | 2,65 | 2,42 |
| 0 | (-1) | 9,74 | 6,92 | 12,70 | 3,48 | 2,39 | 4,85 | 2,79 | 2,90 | 2,62 |
| 5 | (4) | 11,10 | 7,86 | 14,30 | 3,31 | 2,25 | 4,59 | 3,35 | 3,49 | 3,11 |
| 7 | (6) | 14,10 | 8,50 | 15,70 | 3,92 | 2,09 | 4,35 | 3,60 | 4,07 | 3,60 |
| 10 | (9) | 11,40 | 8,28 | 15,00 | 2,87 | 2,00 | 4,08 | 3,97 | 4,15 | 3,67 |
| 15 | (14) | 11,90 | 8,59 | 15,50 | 2,80 | 1,94 | 3,98 | 4,25 | 4,42 | 3,89 |
| 20 | (19) | 11,50 | 8,48 | 15,10 | 2,35 | 1,68 | 3,42 | 4,87 | 5,06 | 4,42 |
| 25 | (24) | 11,30 | 8,42 | 14,70 | 2,06 | 1,48 | 2,98 | 5,46 | 5,67 | 4,95 |
| 30 | (29) | 11,60 | 8,68 | 15,00 | 2,05 | 1,46 | 2,80 | 5,63 | 5,92 | 5,36 |
| 35 | (34) | 12,00 | 8,98 | 15,30 | 1,96 | 1,40 | 2,65 | 6,10 | 6,42 | 5,77 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | 4,77 | 3,79 | 5,42 | 3,08 | 2,47 | 3,61 | 1,55 | 1,54 | 1,50 |
| -15 | (-16) | 5,76 | 4,84 | 7,01 | 3,42 | 2,87 | 4,32 | 1,68 | 1,68 | 1,62 |
| -10 | (-11) | 7,63 | 5,17 | 9,07 | 4,08 | 2,71 | 5,01 | 1,87 | 1,90 | 1,81 |
| -7 | (-8) | 10,90 | 5,96 | 11,00 | 5,15 | 2,71 | 5,33 | 2,11 | 2,20 | 2,07 |
| -5 | (-6) | 8,78 | 6,15 | 11,20 | 3,96 | 2,69 | 5,24 | 2,22 | 2,28 | 2,13 |
| 0 | (-1) | 8,78 | 6,61 | 11,90 | 3,62 | 2,67 | 4,99 | 2,42 | 2,48 | 2,38 |
| 5 | (4) | 10,50 | 7,86 | 13,80 | 3,60 | 2,59 | 4,98 | 2,92 | 3,03 | 2,77 |
| 7 | (6) | 14,00 | 8,43 | 15,00 | 4,40 | 2,46 | 4,81 | 3,18 | 3,43 | 3,11 |
| 10 | (9) | 11,40 | 8,77 | 15,30 | 3,30 | 2,40 | 4,62 | 3,46 | 3,65 | 3,31 |
| 15 | (14) | 11,50 | 9,47 | 15,30 | 3,11 | 2,43 | 4,37 | 3,70 | 3,89 | 3,51 |
| 20 | (19) | 11,10 | 9,35 | 15,00 | 2,68 | 2,14 | 3,84 | 4,16 | 4,36 | 3,90 |
| 25 | (24) | 11,00 | 9,33 | 14,70 | 2,41 | 1,94 | 3,43 | 4,58 | 4,80 | 4,30 |
| 30 | (29) | 11,00 | 9,37 | 14,60 | 2,24 | 1,81 | 3,14 | 4,92 | 5,17 | 4,65 |
| 35 | (34) | 11,40 | 9,63 | 14,80 | 2,13 | 1,72 | 2,95 | 5,33 | 5,61 | 5,00 |

9.2 MAGIS M14 - M14 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass. (kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|----------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 55 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | 4,69 | 3,65 | 5,14 | 3,52 | 2,76 | 3,87 | 1,33 | 1,32 | 1,33 |
| -15 | (-16) | 5,41 | 4,52 | 6,46 | 3,81 | 3,17 | 4,58 | 1,42 | 1,43 | 1,41 |
| -10 | (-11) | 7,34 | 5,40 | 8,72 | 4,26 | 3,08 | 5,21 | 1,72 | 1,76 | 1,67 |
| -7 | (-8) | 11,00 | 6,25 | 11,30 | 5,37 | 2,90 | 5,46 | 2,05 | 2,15 | 2,01 |
| -5 | (-6) | 8,83 | 6,46 | 11,10 | 4,05 | 2,88 | 5,32 | 2,18 | 2,24 | 2,09 |
| 0 | (-1) | 8,78 | 6,90 | 11,80 | 3,70 | 2,81 | 5,19 | 2,38 | 2,46 | 2,27 |
| 5 | (4) | 10,60 | 8,68 | 13,80 | 3,77 | 2,98 | 5,18 | 2,81 | 2,91 | 2,66 |
| 7 | (6) | 13,80 | 9,05 | 14,50 | 4,68 | 2,78 | 4,92 | 2,95 | 3,25 | 2,95 |
| 10 | (9) | 10,60 | 8,96 | 14,20 | 3,31 | 2,67 | 4,60 | 3,21 | 3,36 | 3,08 |
| 15 | (14) | 9,84 | 8,45 | 13,00 | 2,88 | 2,38 | 4,02 | 3,41 | 3,55 | 3,24 |
| 20 | (19) | 9,53 | 8,36 | 12,70 | 2,55 | 2,15 | 3,62 | 3,74 | 3,89 | 3,52 |
| 25 | (24) | 9,40 | 8,32 | 12,50 | 2,32 | 1,98 | 3,28 | 4,04 | 4,21 | 3,80 |
| 30 | (29) | 9,74 | 8,70 | 12,80 | 2,13 | 1,81 | 2,93 | 4,56 | 4,80 | 4,37 |
| 35 | (34) | 10,10 | 8,97 | 13,00 | 2,05 | 1,73 | 2,77 | 4,93 | 5,19 | 4,69 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | - | - | - | - | - | - | - | - | |
| -15 | (-16) | 5,09 | 4,33 | 6,01 | 4,31 | 3,65 | 5,05 | 1,18 | 1,19 | 1,19 |
| -10 | (-11) | 5,73 | 4,51 | 6,73 | 4,44 | 3,43 | 5,30 | 1,29 | 1,32 | 1,27 |
| -7 | (-8) | 7,41 | 5,22 | 8,02 | 4,77 | 3,26 | 5,31 | 1,55 | 1,60 | 1,51 |
| -5 | (-6) | 6,77 | 5,44 | 8,25 | 4,04 | 3,15 | 5,06 | 1,68 | 1,73 | 1,63 |
| 0 | (-1) | 7,18 | 6,17 | 9,34 | 4,08 | 3,39 | 5,48 | 1,76 | 1,82 | 1,70 |
| 5 | (4) | 9,31 | 7,95 | 11,70 | 4,11 | 3,38 | 5,38 | 2,27 | 2,35 | 2,17 |
| 7 | (6) | 12,30 | 8,88 | 13,20 | 4,73 | 3,21 | 5,20 | 2,61 | 2,77 | 2,54 |
| 10 | (9) | 10,30 | 9,02 | 13,20 | 3,71 | 3,10 | 4,91 | 2,78 | 2,91 | 2,69 |
| 15 | (14) | 10,00 | 9,04 | 12,70 | 3,38 | 2,93 | 4,48 | 2,96 | 3,09 | 2,84 |
| 20 | (19) | 8,54 | 7,88 | 11,00 | 2,78 | 2,47 | 3,77 | 3,07 | 3,19 | 2,92 |
| 25 | (24) | 7,95 | 7,38 | 10,20 | 2,53 | 2,26 | 3,40 | 3,14 | 3,27 | 2,99 |
| 30 | (29) | 8,17 | 7,34 | 10,30 | 2,58 | 2,20 | 3,40 | 3,17 | 3,33 | 3,04 |
| 35 | (34) | - | - | - | - | - | - | - | - | - |
| d.b. | (w.b.) | Water flow temperature 65 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | - | - | - | - | - | - | - | - | |
| -15 | (-16) | - | - | - | - | - | - | - | - | |
| -10 | (-11) | - | - | - | - | - | - | - | - | |
| -7 | (-8) | - | - | - | - | - | - | - | - | |
| -5 | (-6) | - | - | - | - | - | - | - | - | |
| 0 | (-1) | - | - | - | - | - | - | - | - | |
| 5 | (4) | 8,06 | 6,88 | 9,76 | 4,19 | 3,44 | 5,33 | 1,93 | 2,00 | 1,83 |
| 7 | (6) | 9,71 | 7,25 | 10,40 | 4,50 | 3,14 | 4,95 | 2,16 | 2,31 | 2,10 |
| 10 | (9) | 9,11 | 7,95 | 11,20 | 3,88 | 3,23 | 4,98 | 2,35 | 2,46 | 2,26 |
| 15 | (14) | 9,68 | 8,72 | 11,90 | 3,78 | 3,29 | 4,97 | 2,56 | 2,65 | 2,41 |
| 20 | (19) | - | - | - | - | - | - | - | - | - |
| 25 | (24) | - | - | - | - | - | - | - | - | - |
| 30 | (29) | - | - | - | - | - | - | - | - | - |
| 35 | (34) | - | - | - | - | - | - | - | - | - |

MAGIS M14 - 14 T

10 MAGIS M14 - M14 T "POWER" AND "EER" IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--|-------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. Water flow temperature 5 °C | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | 6,37 | 3,22 | 8,17 | 1,61 | 0,78 | 2,17 | 3,96 | 4,12 | 3,77 |
| 25 | 8,40 | 4,03 | 10,60 | 2,39 | 1,12 | 3,19 | 3,52 | 3,60 | 3,32 |
| 30 | 8,44 | 4,01 | 10,50 | 2,99 | 1,39 | 3,96 | 2,82 | 2,88 | 2,65 |
| 35 | 8,07 | 3,67 | 10,40 | 3,56 | 1,58 | 4,81 | 2,27 | 2,33 | 2,16 |
| 40 | 6,62 | 2,99 | 8,11 | 3,45 | 1,56 | 4,53 | 1,92 | 1,91 | 1,79 |
| 43 | 4,27 | 1,46 | 5,20 | 2,93 | 0,98 | 3,72 | 1,45 | 1,48 | 1,40 |
| d.b. Water flow temperature 10 °C | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | 8,24 | 5,05 | 11,00 | 1,67 | 0,96 | 2,32 | 4,94 | 5,24 | 4,60 |
| 20 | 10,30 | 4,52 | 12,80 | 2,35 | 0,99 | 3,16 | 4,40 | 4,58 | 4,04 |
| 25 | 11,90 | 4,93 | 14,50 | 2,89 | 1,14 | 3,84 | 4,12 | 4,32 | 3,77 |
| 30 | 11,80 | 4,82 | 14,10 | 3,49 | 1,37 | 4,53 | 3,37 | 3,53 | 3,11 |
| 35 | 11,30 | 5,23 | 13,70 | 4,00 | 1,78 | 5,32 | 2,81 | 2,94 | 2,58 |
| 40 | 8,35 | 3,91 | 9,87 | 3,35 | 1,53 | 4,33 | 2,49 | 2,56 | 2,28 |
| 43 | 4,80 | 2,30 | 6,11 | 2,44 | 1,13 | 3,26 | 1,97 | 2,03 | 1,87 |
| d.b. Water flow temperature 15 °C | | | | | | | | | |
| 5 | 7,67 | 4,12 | 9,57 | 1,29 | 0,65 | 1,76 | 5,93 | 6,37 | 5,44 |
| 10 | 9,12 | 5,06 | 11,30 | 1,60 | 0,82 | 2,18 | 5,69 | 6,16 | 5,21 |
| 15 | 11,00 | 5,88 | 13,10 | 1,85 | 0,93 | 2,32 | 5,92 | 6,32 | 5,45 |
| 20 | 12,40 | 6,16 | 14,90 | 2,52 | 1,18 | 3,33 | 4,92 | 5,21 | 4,47 |
| 25 | 14,10 | 6,65 | 16,60 | 3,23 | 1,45 | 4,16 | 4,35 | 4,58 | 3,99 |
| 30 | 13,70 | 6,41 | 15,90 | 3,57 | 1,60 | 4,56 | 3,83 | 4,01 | 3,49 |
| 35 | 12,60 | 6,29 | 15,30 | 3,65 | 1,70 | 4,88 | 3,45 | 3,69 | 3,13 |
| 40 | 9,28 | 4,55 | 10,70 | 3,09 | 1,46 | 3,92 | 3,00 | 3,11 | 2,72 |
| 43 | 5,83 | 3,05 | 7,33 | 2,23 | 1,12 | 3,02 | 2,61 | 2,72 | 2,43 |

10.1 MAGIS M14 - M14 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 20 °C | | | | | | | | |
| 5 | 9,61 | 5,21 | 12,00 | 1,16 | 0,59 | 1,61 | 8,28 | 8,80 | 7,43 |
| 10 | 10,60 | 5,91 | 13,10 | 1,38 | 0,72 | 1,92 | 7,65 | 8,20 | 6,85 |
| 15 | 13,40 | 6,68 | 15,50 | 1,79 | 0,81 | 2,32 | 7,48 | 8,25 | 6,67 |
| 20 | 13,70 | 7,55 | 15,90 | 2,44 | 1,28 | 3,14 | 5,61 | 5,92 | 5,08 |
| 25 | 14,80 | 7,82 | 17,00 | 3,14 | 1,58 | 4,01 | 4,73 | 4,96 | 4,24 |
| 30 | 14,30 | 7,47 | 16,20 | 3,37 | 1,67 | 4,18 | 4,25 | 4,48 | 3,87 |
| 35 | 13,40 | 7,13 | 15,30 | 3,52 | 1,73 | 4,44 | 3,80 | 4,11 | 3,45 |
| 40 | 10,90 | 5,85 | 12,20 | 3,24 | 1,67 | 4,05 | 3,38 | 3,50 | 3,01 |
| 43 | 7,30 | 3,72 | 8,53 | 2,47 | 1,22 | 3,19 | 2,96 | 3,04 | 2,67 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 25 °C | | | | | | | | |
| 5 | 10,60 | 5,68 | 13,00 | 1,24 | 0,62 | 1,68 | 8,50 | 9,15 | 7,73 |
| 10 | 11,50 | 6,40 | 14,20 | 1,43 | 0,73 | 1,94 | 8,07 | 8,75 | 7,32 |
| 15 | 13,80 | 7,86 | 16,40 | 1,68 | 0,87 | 2,32 | 8,19 | 9,07 | 7,26 |
| 20 | 14,40 | 8,16 | 16,50 | 2,19 | 1,18 | 2,84 | 6,56 | 6,93 | 5,82 |
| 25 | 15,10 | 8,19 | 17,10 | 2,65 | 1,38 | 3,44 | 5,68 | 5,95 | 4,96 |
| 30 | 14,40 | 7,77 | 16,10 | 2,97 | 1,54 | 3,74 | 4,86 | 5,04 | 4,31 |
| 35 | 13,90 | 7,66 | 15,30 | 3,35 | 1,73 | 4,12 | 4,15 | 4,44 | 3,71 |
| 40 | 12,00 | 6,83 | 13,20 | 2,97 | 1,66 | 3,77 | 4,05 | 4,12 | 3,51 |
| 43 | 8,44 | 5,38 | 10,70 | 2,30 | 1,42 | 3,26 | 3,66 | 3,80 | 3,27 |

MAGIS M16 - 16 T

11 MAGIS M16 - M16 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass. (kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|----------------|-----------|----------|----------|-------|
| d.b. | (w.b.) | Water flow temperature 25 °C | | | | | | | | |
| -25 | (-26) | 6,57 | 4,38 | 7,69 | 3,24 | 2,11 | 4,03 | 2,03 | 2,08 | 1,91 |
| -20 | (-21) | 8,42 | 5,31 | 9,57 | 3,29 | 2,04 | 3,94 | 2,56 | 2,60 | 2,38 |
| -15 | (-16) | 9,89 | 6,45 | 11,80 | 3,37 | 2,15 | 4,37 | 2,93 | 3,00 | 2,71 |
| -10 | (-11) | 11,10 | 5,70 | 13,40 | 3,51 | 1,74 | 4,51 | 3,15 | 3,27 | 2,97 |
| -7 | (-8) | 13,90 | 5,38 | 14,30 | 4,27 | 1,53 | 4,59 | 3,25 | 3,52 | 3,13 |
| -5 | (-6) | 12,10 | 5,60 | 14,60 | 3,21 | 1,43 | 4,27 | 3,77 | 3,93 | 3,47 |
| 0 | (-1) | 12,00 | 6,04 | 15,10 | 2,54 | 1,22 | 3,49 | 4,72 | 4,94 | 4,33 |
| 5 | (4) | 13,50 | 6,80 | 16,80 | 2,37 | 1,13 | 3,25 | 5,71 | 5,99 | 5,19 |
| 7 | (6) | 17,00 | 6,96 | 17,50 | 2,87 | 1,08 | 3,16 | 5,91 | 6,43 | 5,53 |
| 10 | (9) | 14,20 | 7,35 | 18,00 | 2,14 | 1,05 | 3,01 | 6,66 | 7,01 | 6,02 |
| 15 | (14) | 15,00 | 7,40 | 18,90 | 1,97 | 0,93 | 2,76 | 7,63 | 7,99 | 6,84 |
| 20 | (19) | 13,20 | 6,67 | 16,70 | 1,46 | 0,70 | 2,08 | 9,04 | 9,46 | 8,03 |
| 25 | (24) | 12,80 | 6,62 | 16,20 | 1,29 | 0,63 | 1,83 | 9,97 | 10,40 | 8,86 |
| 30 | (29) | 12,50 | 7,29 | 15,60 | 1,11 | 0,62 | 1,55 | 11,30 | 11,80 | 10,10 |
| 35 | (34) | 13,30 | 7,75 | 16,30 | 1,10 | 0,61 | 1,50 | 12,00 | 12,70 | 10,80 |
| d.b. | (w.b.) | Water flow temperature 30 °C | | | | | | | | |
| -25 | (-26) | 6,79 | 4,74 | 7,99 | 3,29 | 2,25 | 4,22 | 2,06 | 2,11 | 1,93 |
| -20 | (-21) | 8,50 | 5,58 | 9,71 | 3,59 | 2,33 | 4,43 | 2,37 | 2,40 | 2,19 |
| -15 | (-16) | 9,35 | 6,37 | 11,30 | 3,52 | 2,34 | 4,60 | 2,66 | 2,72 | 2,45 |
| -10 | (-11) | 10,70 | 5,80 | 13,00 | 3,68 | 1,93 | 4,78 | 2,90 | 3,01 | 2,72 |
| -7 | (-8) | 13,50 | 4,96 | 14,10 | 4,44 | 1,55 | 4,89 | 3,05 | 3,21 | 2,88 |
| -5 | (-6) | 11,70 | 5,16 | 14,30 | 3,49 | 1,47 | 4,61 | 3,36 | 3,50 | 3,13 |
| 0 | (-1) | 11,50 | 5,72 | 14,70 | 2,86 | 1,35 | 3,91 | 4,04 | 4,23 | 3,75 |
| 5 | (4) | 11,70 | 5,78 | 14,60 | 2,64 | 1,25 | 3,61 | 4,41 | 4,64 | 4,06 |
| 7 | (6) | 15,20 | 5,67 | 15,70 | 2,98 | 1,05 | 3,12 | 5,11 | 5,38 | 4,68 |
| 10 | (9) | 12,80 | 6,51 | 16,40 | 2,36 | 1,14 | 3,34 | 5,42 | 5,70 | 4,96 |
| 15 | (14) | 15,20 | 7,57 | 19,30 | 2,20 | 1,05 | 3,08 | 6,89 | 7,22 | 6,26 |
| 20 | (19) | 13,20 | 6,76 | 16,90 | 1,67 | 0,82 | 2,38 | 7,89 | 8,27 | 7,10 |
| 25 | (24) | 12,70 | 6,64 | 16,20 | 1,57 | 0,79 | 2,23 | 8,06 | 8,45 | 7,26 |
| 30 | (29) | 12,20 | 7,58 | 15,50 | 1,35 | 0,80 | 1,88 | 9,06 | 9,48 | 8,21 |
| 35 | (34) | 13,30 | 8,28 | 16,60 | 1,35 | 0,79 | 1,84 | 9,90 | 10,50 | 9,01 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | | | | | | | |
| -25 | (-26) | 5,57 | 4,30 | 6,61 | 3,21 | 2,44 | 4,01 | 1,73 | 1,76 | 1,65 |
| -20 | (-21) | 7,07 | 4,61 | 8,16 | 3,88 | 2,50 | 4,77 | 1,82 | 1,85 | 1,71 |
| -15 | (-16) | 8,80 | 5,94 | 10,70 | 3,79 | 2,50 | 4,93 | 2,32 | 2,38 | 2,17 |
| -10 | (-11) | 10,30 | 5,52 | 12,70 | 3,95 | 2,06 | 5,09 | 2,61 | 2,68 | 2,49 |
| -7 | (-8) | 13,10 | 4,99 | 13,90 | 4,85 | 1,68 | 5,19 | 2,70 | 2,97 | 2,67 |
| -5 | (-6) | 11,20 | 5,17 | 14,00 | 3,65 | 1,62 | 4,93 | 3,07 | 3,20 | 2,86 |
| 0 | (-1) | 10,90 | 5,49 | 14,30 | 3,05 | 1,46 | 4,27 | 3,59 | 3,76 | 3,34 |
| 5 | (4) | 12,50 | 6,27 | 16,10 | 2,85 | 1,36 | 4,00 | 4,38 | 4,60 | 4,04 |
| 7 | (6) | 15,90 | 6,43 | 16,80 | 3,53 | 1,27 | 3,79 | 4,50 | 5,08 | 4,43 |
| 10 | (9) | 13,40 | 6,91 | 17,60 | 2,59 | 1,27 | 3,73 | 5,16 | 5,44 | 4,74 |
| 15 | (14) | 14,50 | 7,39 | 18,90 | 2,43 | 1,18 | 3,48 | 5,97 | 6,26 | 5,43 |
| 20 | (19) | 12,70 | 6,65 | 16,70 | 1,84 | 0,92 | 2,69 | 6,88 | 7,21 | 6,21 |
| 25 | (24) | 12,20 | 6,54 | 16,00 | 1,59 | 0,81 | 2,31 | 7,71 | 8,07 | 6,94 |
| 30 | (29) | 11,80 | 8,38 | 15,40 | 1,40 | 0,96 | 2,00 | 8,47 | 8,70 | 7,68 |
| 35 | (34) | 12,80 | 9,05 | 16,30 | 1,41 | 0,94 | 1,94 | 9,06 | 9,60 | 8,42 |

11.1 MAGIS M16 - M16 T "POWER" AND "COP" IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass. (kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|----------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 40 °C | | | | | | | | |
| -25 | (-26) | 5,04 | 4,01 | 5,89 | 3,65 | 2,86 | 4,43 | 1,38 | 1,40 | 1,33 |
| -20 | (-21) | 6,59 | 4,36 | 7,48 | 3,99 | 2,60 | 4,76 | 1,65 | 1,68 | 1,57 |
| -15 | (-16) | 8,41 | 5,77 | 10,10 | 4,14 | 2,77 | 5,24 | 2,03 | 2,08 | 1,92 |
| -10 | (-11) | 10,30 | 5,63 | 12,40 | 4,34 | 2,31 | 5,43 | 2,37 | 2,43 | 2,28 |
| -7 | (-8) | 13,10 | 5,58 | 13,80 | 4,98 | 1,99 | 5,55 | 2,63 | 2,80 | 2,50 |
| -5 | (-6) | 11,20 | 5,72 | 13,80 | 3,98 | 1,94 | 5,33 | 2,82 | 2,94 | 2,61 |
| 0 | (-1) | 10,70 | 5,93 | 13,90 | 3,43 | 1,81 | 4,80 | 3,13 | 3,28 | 2,88 |
| 5 | (4) | 12,30 | 6,77 | 15,60 | 3,27 | 1,71 | 4,57 | 3,76 | 3,95 | 3,43 |
| 7 | (6) | 15,70 | 6,97 | 16,40 | 3,99 | 1,56 | 4,25 | 3,94 | 4,46 | 3,85 |
| 10 | (9) | 13,20 | 7,44 | 17,10 | 3,01 | 1,62 | 4,33 | 4,36 | 4,59 | 3,96 |
| 15 | (14) | 14,20 | 8,45 | 18,30 | 2,84 | 1,62 | 4,08 | 4,98 | 5,22 | 4,48 |
| 20 | (19) | 13,30 | 8,17 | 17,40 | 2,32 | 1,36 | 3,40 | 5,75 | 6,02 | 5,12 |
| 25 | (24) | 12,90 | 7,99 | 16,60 | 1,78 | 1,17 | 2,87 | 7,22 | 6,82 | 5,81 |
| 30 | (29) | 12,40 | 8,91 | 15,90 | 1,55 | 1,21 | 2,45 | 7,98 | 7,36 | 6,49 |
| 35 | (34) | 13,20 | 9,48 | 16,60 | 1,79 | 1,21 | 2,42 | 7,40 | 7,85 | 6,87 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | | | | | | | |
| -25 | (-26) | 4,30 | 3,33 | 4,96 | 3,60 | 2,77 | 4,21 | 1,19 | 1,20 | 1,18 |
| -20 | (-21) | 5,74 | 4,25 | 6,55 | 4,14 | 3,10 | 4,85 | 1,39 | 1,37 | 1,35 |
| -15 | (-16) | 7,38 | 5,78 | 9,03 | 4,26 | 3,33 | 5,38 | 1,73 | 1,73 | 1,68 |
| -10 | (-11) | 9,25 | 5,75 | 11,10 | 4,59 | 2,80 | 5,61 | 2,01 | 2,05 | 1,96 |
| -7 | (-8) | 12,80 | 6,83 | 13,10 | 5,69 | 2,86 | 6,02 | 2,25 | 2,38 | 2,18 |
| -5 | (-6) | 10,70 | 7,09 | 13,40 | 4,44 | 2,84 | 5,88 | 2,42 | 2,50 | 2,28 |
| 0 | (-1) | 10,80 | 7,66 | 14,10 | 3,83 | 2,62 | 5,33 | 2,81 | 2,92 | 2,64 |
| 5 | (4) | 12,30 | 8,74 | 15,90 | 3,58 | 2,43 | 4,96 | 3,44 | 3,59 | 3,20 |
| 7 | (6) | 16,00 | 9,02 | 16,60 | 4,57 | 2,26 | 4,71 | 3,50 | 3,99 | 3,53 |
| 10 | (9) | 13,20 | 9,58 | 17,30 | 3,33 | 2,31 | 4,72 | 3,97 | 4,15 | 3,67 |
| 15 | (14) | 14,20 | 10,30 | 18,50 | 3,19 | 2,21 | 4,53 | 4,46 | 4,64 | 4,09 |
| 20 | (19) | 12,20 | 9,04 | 16,10 | 2,59 | 1,85 | 3,77 | 4,71 | 4,89 | 4,28 |
| 25 | (24) | 12,00 | 8,98 | 15,70 | 2,24 | 1,61 | 3,23 | 5,36 | 5,57 | 4,87 |
| 30 | (29) | 11,80 | 8,88 | 15,30 | 2,06 | 1,47 | 2,81 | 5,74 | 6,03 | 5,46 |
| 35 | (34) | 12,50 | 9,34 | 15,90 | 2,07 | 1,48 | 2,79 | 6,02 | 6,33 | 5,68 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | - |
| -20 | (-21) | 5,15 | 4,10 | 5,85 | 3,88 | 3,11 | 4,54 | 1,33 | 1,32 | 1,29 |
| -15 | (-16) | 6,18 | 5,20 | 7,53 | 4,21 | 3,54 | 5,32 | 1,47 | 1,47 | 1,42 |
| -10 | (-11) | 7,98 | 5,41 | 9,49 | 4,55 | 3,03 | 5,56 | 1,75 | 1,79 | 1,70 |
| -7 | (-8) | 12,40 | 6,94 | 12,90 | 5,83 | 3,17 | 6,22 | 2,12 | 2,19 | 2,07 |
| -5 | (-6) | 10,20 | 7,12 | 13,00 | 4,83 | 3,29 | 5,82 | 2,11 | 2,17 | 2,22 |
| 0 | (-1) | 10,10 | 7,58 | 13,40 | 4,00 | 2,91 | 5,14 | 2,52 | 2,60 | 2,61 |
| 5 | (4) | 11,60 | 8,70 | 15,30 | 3,90 | 2,82 | 5,05 | 2,97 | 3,09 | 3,02 |
| 7 | (6) | 16,00 | 9,01 | 16,20 | 4,92 | 2,58 | 5,05 | 3,24 | 3,49 | 3,17 |
| 10 | (9) | 12,50 | 9,56 | 16,70 | 3,66 | 2,66 | 5,12 | 3,41 | 3,59 | 3,26 |
| 15 | (14) | 13,40 | 11,00 | 17,80 | 3,41 | 2,67 | 4,79 | 3,92 | 4,12 | 3,72 |
| 20 | (19) | 10,90 | 9,12 | 14,60 | 2,83 | 2,26 | 4,06 | 3,84 | 4,03 | 3,60 |
| 25 | (24) | 10,80 | 9,20 | 14,50 | 2,43 | 1,96 | 3,46 | 4,47 | 4,69 | 4,20 |
| 30 | (29) | 10,90 | 9,25 | 14,40 | 2,15 | 1,74 | 3,01 | 5,07 | 5,33 | 4,79 |
| 35 | (34) | 11,50 | 9,77 | 15,00 | 2,16 | 1,74 | 3,00 | 5,34 | 5,61 | 5,01 |

MAGIS M16 - 16 T

11.2 MAGIS M16 - M16 T “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. COP | Min. COP | Max. COP | |
|--------------|-------------------|-------------------------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|------|
| d.b. | (w.b.) | Water flow temperature 55 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | 4,89 | 3,81 | 5,37 | 4,33 | 3,38 | 4,75 | 1,13 | 1,13 | 1,13 |
| -15 | (-16) | 5,71 | 4,78 | 6,82 | 4,40 | 3,66 | 5,29 | 1,30 | 1,30 | 1,29 |
| -10 | (-11) | 7,51 | 5,53 | 8,92 | 4,83 | 3,49 | 5,88 | 1,55 | 1,58 | 1,51 |
| -7 | (-8) | 12,50 | 7,11 | 12,60 | 6,25 | 3,27 | 6,29 | 2,00 | 2,17 | 2,00 |
| -5 | (-6) | 9,98 | 7,31 | 12,60 | 4,50 | 3,20 | 5,92 | 2,22 | 2,28 | 2,13 |
| 0 | (-1) | 9,77 | 7,52 | 12,80 | 3,91 | 2,91 | 5,42 | 2,50 | 2,59 | 2,37 |
| 5 | (4) | 11,10 | 9,11 | 14,50 | 3,79 | 3,00 | 5,21 | 2,93 | 3,04 | 2,77 |
| 7 | (6) | 16,00 | 9,96 | 16,20 | 5,61 | 3,13 | 5,53 | 2,85 | 3,19 | 2,89 |
| 10 | (9) | 12,10 | 10,20 | 16,10 | 3,71 | 2,99 | 5,16 | 3,25 | 3,40 | 3,11 |
| 15 | (14) | 13,20 | 11,40 | 17,50 | 3,67 | 3,02 | 5,11 | 3,61 | 3,75 | 3,42 |
| 20 | (19) | 11,20 | 9,82 | 15,00 | 3,04 | 2,57 | 4,32 | 3,68 | 3,83 | 3,46 |
| 25 | (24) | 10,60 | 9,38 | 14,10 | 2,60 | 2,22 | 3,68 | 4,07 | 4,23 | 3,82 |
| 30 | (29) | 10,00 | 8,95 | 13,20 | 2,29 | 1,95 | 3,15 | 4,37 | 4,59 | 4,18 |
| 35 | (34) | 10,40 | 9,23 | 13,40 | 2,27 | 1,92 | 3,07 | 4,57 | 4,81 | 4,35 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | - | - | - | - | - | - | - | - | |
| -15 | (-16) | 5,43 | 4,62 | 6,42 | 4,77 | 4,04 | 5,59 | 1,14 | 1,15 | 1,15 |
| -10 | (-11) | 5,99 | 4,71 | 7,04 | 4,69 | 3,62 | 5,59 | 1,28 | 1,30 | 1,26 |
| -7 | (-8) | 7,69 | 5,36 | 8,25 | 5,60 | 3,80 | 6,18 | 1,37 | 1,41 | 1,33 |
| -5 | (-6) | 7,08 | 5,69 | 8,62 | 4,76 | 3,72 | 5,97 | 1,49 | 1,53 | 1,45 |
| 0 | (-1) | 7,66 | 6,32 | 9,56 | 4,30 | 3,43 | 5,54 | 1,78 | 1,84 | 1,72 |
| 5 | (4) | 10,10 | 8,65 | 12,70 | 4,09 | 3,36 | 5,36 | 2,47 | 2,57 | 2,37 |
| 7 | (6) | 13,20 | 9,46 | 14,10 | 4,86 | 3,29 | 5,34 | 2,72 | 2,87 | 2,63 |
| 10 | (9) | 11,20 | 9,78 | 14,30 | 3,88 | 3,24 | 5,15 | 2,88 | 3,02 | 2,79 |
| 15 | (14) | 11,60 | 10,50 | 14,70 | 3,64 | 3,16 | 4,83 | 3,19 | 3,32 | 3,06 |
| 20 | (19) | 10,20 | 9,42 | 13,10 | 3,24 | 2,87 | 4,39 | 3,15 | 3,28 | 3,00 |
| 25 | (24) | 9,73 | 9,04 | 12,40 | 3,01 | 2,69 | 4,05 | 3,23 | 3,36 | 3,07 |
| 30 | (29) | 10,10 | 9,05 | 12,70 | 3,12 | 2,66 | 4,11 | 3,23 | 3,40 | 3,10 |
| 35 | (34) | - | - | - | - | - | - | - | - | - |
| d.b. | (w.b.) | Water flow temperature 65 °C | | | | | | | | |
| -25 | (-26) | - | - | - | - | - | - | - | - | |
| -20 | (-21) | - | - | - | - | - | - | - | - | |
| -15 | (-16) | - | - | - | - | - | - | - | - | |
| -10 | (-11) | - | - | - | - | - | - | - | - | |
| -7 | (-8) | - | - | - | - | - | - | - | - | |
| -5 | (-6) | - | - | - | - | - | - | - | - | |
| 0 | (-1) | - | - | - | - | - | - | - | - | |
| 5 | (4) | 8,84 | 7,55 | 10,70 | 4,24 | 3,51 | 5,24 | 2,08 | 2,15 | 2,04 |
| 7 | (6) | 10,20 | 7,87 | 11,30 | 4,60 | 3,41 | 5,13 | 2,23 | 2,31 | 2,20 |
| 10 | (9) | 9,92 | 8,66 | 12,20 | 3,93 | 3,38 | 4,97 | 2,52 | 2,56 | 2,46 |
| 15 | (14) | 10,20 | 9,17 | 12,50 | 3,81 | 3,37 | 4,80 | 2,67 | 2,72 | 2,60 |
| 20 | (19) | - | - | - | - | - | - | - | - | - |
| 25 | (24) | - | - | - | - | - | - | - | - | - |
| 30 | (29) | - | - | - | - | - | - | - | - | - |
| 35 | (34) | - | - | - | - | - | - | - | - | - |

12 MAGIS M16 - M16 T "POWER" AND "EER" IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 5 °C | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | - | - | - | - | - |
| 20 | 7,01 | 3,54 | 8,99 | 1,80 | 0,88 | 2,43 | 3,88 | 4,04 | 3,70 |
| 25 | 9,24 | 4,43 | 11,70 | 2,69 | 1,26 | 3,59 | 3,43 | 3,52 | 3,25 |
| 30 | 9,28 | 4,41 | 11,50 | 3,37 | 1,57 | 4,46 | 2,75 | 2,81 | 2,59 |
| 35 | 8,87 | 4,04 | 11,40 | 4,01 | 1,78 | 5,42 | 2,21 | 2,27 | 2,11 |
| 40 | 7,28 | 3,29 | 8,92 | 3,89 | 1,76 | 5,11 | 1,87 | 1,86 | 1,75 |
| 43 | 4,91 | 1,68 | 5,98 | 3,55 | 1,19 | 4,50 | 1,38 | 1,41 | 1,33 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 10 °C | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - |
| 15 | 8,52 | 5,23 | 11,40 | 1,70 | 0,98 | 2,43 | 5,02 | 5,32 | 4,67 |
| 20 | 11,40 | 4,97 | 14,00 | 2,63 | 1,11 | 3,55 | 4,31 | 4,49 | 3,96 |
| 25 | 13,10 | 5,42 | 15,90 | 3,25 | 1,28 | 4,32 | 4,02 | 4,22 | 3,69 |
| 30 | 12,90 | 5,31 | 15,50 | 3,93 | 1,54 | 5,11 | 3,29 | 3,44 | 3,04 |
| 35 | 12,40 | 5,75 | 15,10 | 4,51 | 2,00 | 6,00 | 2,75 | 2,87 | 2,52 |
| 40 | 9,18 | 4,30 | 10,90 | 3,78 | 1,72 | 4,89 | 2,43 | 2,50 | 2,22 |
| 43 | 5,76 | 2,76 | 7,33 | 3,08 | 1,43 | 4,12 | 1,87 | 1,93 | 1,78 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 15 °C | | | | | | | | |
| 5 | 7,67 | 4,12 | 9,57 | 1,29 | 0,65 | 1,76 | 5,93 | 6,37 | 5,44 |
| 10 | 9,12 | 5,06 | 11,30 | 1,60 | 0,82 | 2,18 | 5,69 | 6,16 | 5,21 |
| 15 | 11,40 | 6,08 | 13,50 | 1,89 | 0,95 | 2,44 | 6,01 | 6,41 | 5,53 |
| 20 | 13,10 | 6,53 | 15,80 | 2,70 | 1,27 | 3,56 | 4,87 | 5,15 | 4,42 |
| 25 | 14,80 | 6,98 | 17,40 | 3,47 | 1,56 | 4,47 | 4,25 | 4,47 | 3,90 |
| 30 | 14,80 | 6,92 | 17,20 | 3,95 | 1,77 | 5,05 | 3,74 | 3,91 | 3,41 |
| 35 | 13,60 | 6,79 | 16,50 | 4,19 | 1,96 | 5,60 | 3,24 | 3,47 | 2,94 |
| 40 | 10,20 | 5,01 | 11,70 | 3,49 | 1,65 | 4,42 | 2,93 | 3,03 | 2,65 |
| 43 | 7,17 | 3,75 | 9,01 | 2,89 | 1,45 | 3,91 | 2,48 | 2,58 | 2,31 |

MAGIS M16 - 16 T

12.1 MAGIS M16 - M16 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
|--------------|-------------------------------------|------------------|------------------|-----------------|----------------|---------------|-----------|----------|----------|
| d.b. | Water flow temperature 20 °C | | | | | | | | |
| 5 | 9,61 | 5,21 | 12,00 | 1,16 | 0,59 | 1,61 | 8,28 | 8,80 | 7,43 |
| 10 | 10,60 | 5,91 | 13,10 | 1,38 | 0,72 | 1,92 | 7,65 | 8,20 | 6,85 |
| 15 | 13,80 | 6,91 | 16,10 | 1,82 | 0,83 | 2,37 | 7,59 | 8,37 | 6,77 |
| 20 | 14,50 | 8,01 | 16,90 | 2,62 | 1,37 | 3,36 | 5,56 | 5,86 | 5,03 |
| 25 | 15,60 | 8,21 | 17,90 | 3,37 | 1,69 | 4,31 | 4,62 | 4,85 | 4,14 |
| 30 | 15,20 | 7,92 | 17,10 | 3,75 | 1,86 | 4,66 | 4,04 | 4,26 | 3,68 |
| 35 | 14,20 | 7,56 | 16,30 | 3,94 | 1,94 | 4,96 | 3,60 | 3,90 | 3,27 |
| 40 | 12,00 | 6,43 | 13,40 | 3,75 | 1,93 | 4,69 | 3,21 | 3,33 | 2,86 |
| 43 | 8,98 | 4,57 | 10,50 | 3,20 | 1,58 | 4,13 | 2,81 | 2,89 | 2,54 |
| | | | | | | | | | |
| Air Temp. °C | Norm. Output (kW) | Min. Output (kW) | Max. Output (kW) | Norm. Ass. (kW) | Min. Ass. (kW) | Max. Ass.(kW) | Norm. EER | EER Min. | EER Max. |
| d.b. | Water flow temperature 25 °C | | | | | | | | |
| 5 | 10,60 | 5,68 | 13,00 | 1,24 | 0,62 | 1,68 | 8,50 | 9,15 | 7,73 |
| 10 | 11,50 | 6,40 | 14,20 | 1,43 | 0,73 | 1,94 | 8,07 | 8,75 | 7,32 |
| 15 | 14,20 | 8,14 | 17,00 | 1,71 | 0,88 | 2,30 | 8,31 | 9,21 | 7,37 |
| 20 | 15,30 | 8,65 | 17,50 | 2,35 | 1,26 | 3,04 | 6,49 | 6,86 | 5,76 |
| 25 | 15,80 | 8,60 | 17,90 | 2,85 | 1,48 | 3,70 | 5,55 | 5,81 | 4,84 |
| 30 | 15,10 | 8,15 | 16,90 | 3,19 | 1,66 | 4,02 | 4,75 | 4,92 | 4,21 |
| 35 | 14,70 | 8,12 | 16,20 | 3,64 | 1,87 | 4,47 | 4,05 | 4,33 | 3,62 |
| 40 | 13,20 | 7,52 | 14,60 | 3,43 | 1,92 | 4,36 | 3,84 | 3,91 | 3,34 |
| 43 | 9,46 | 6,03 | 12,00 | 2,72 | 1,67 | 3,85 | 3,48 | 3,61 | 3,11 |

13

MAGIS M18 T “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | | Max. Output (kW) | Max. Ass.(kW) | Max. COP |
|--------------|---------------|-------------------------------------|---------------|----------|
| d.b. | (w.b.) | Water flow temperature 30 °C | | |
| -25 | (-26) | 8,68 | 6,03 | 1,44 |
| -20 | (-21) | 11,02 | 5,66 | 1,95 |
| -15 | (-16) | 15,47 | 6,96 | 2,22 |
| -7 | (-8) | 21,07 | 8,18 | 2,58 |
| -2 | (-3) | 22,48 | 7,18 | 3,13 |
| 2 | (1) | 20,35 | 5,81 | 3,50 |
| 7 | (6) | 21,88 | 5,02 | 4,36 |
| 15 | (14) | 23,37 | 5,15 | 4,53 |
| 20 | (19) | 25,03 | 5,38 | 4,65 |
| 25 | (24) | 2478 | 5,21 | 4,76 |
| 30 | (29) | 26,33 | 5,42 | 4,85 |
| 35 | (34) | 12,77 | 1,71 | 7,46 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | |
| -25 | (-26) | 7,84 | 6,52 | 1,20 |
| -20 | (-21) | 9,95 | 6,12 | 1,63 |
| -15 | (-16) | 14,69 | 6,97 | 2,11 |
| -7 | (-8) | 19,90 | 8,41 | 2,37 |
| -2 | (-3) | 20,51 | 7,34 | 2,79 |
| 2 | (1) | 20,23 | 6,40 | 3,16 |
| 7 | (6) | 20,74 | 5,31 | 3,90 |
| 15 | (14) | 22,08 | 5,11 | 4,32 |
| 20 | (19) | 23,78 | 5,33 | 4,46 |
| 25 | (24) | 23,66 | 5,15 | 4,59 |
| 30 | (29) | 25,24 | 5,35 | 4,71 |
| 35 | (34) | 12,48 | 1,89 | 6,58 |
| d.b. | (w.b.) | Water flow temperature 40 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | 8,88 | 6,58 | 1,35 |
| -15 | (-16) | 14,16 | 8,25 | 1,72 |
| -7 | (-8) | 19,07 | 8,80 | 2,17 |
| -2 | (-3) | 19,02 | 7,62 | 2,49 |
| 2 | (1) | 20,10 | 6,98 | 2,88 |
| 7 | (6) | 19,59 | 5,61 | 3,49 |
| 15 | (14) | 20,78 | 5,06 | 4,11 |
| 20 | (19) | 22,52 | 5,27 | 4,27 |
| 25 | (24) | 22,53 | 5,09 | 4,43 |
| 30 | (29) | 24,15 | 5,29 | 4,57 |
| 35 | (34) | 12,19 | 2,08 | 5,85 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 12,44 | 8,74 | 1,42 |
| -7 | (-8) | 16,15 | 8,17 | 1,98 |
| -2 | (-3) | 17,570 | 7,89 | 2,23 |
| 2 | (1) | 19,97 | 7,56 | 2,64 |

| Air Temp. °C | | Max. Output (kW) | Max. Ass.(kW) | Max. COP |
|--------------|---------------|-------------------------------------|---------------|----------|
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| 7 | (6) | 18,44 | 5,90 | 3,13 |
| 15 | (14) | 20,88 | 5,37 | 3,89 |
| 20 | (19) | 21,27 | 5,22 | 4,08 |
| 25 | (24) | 21,41 | 5,03 | 4,25 |
| 30 | (29) | 23,06 | 5,22 | 4,42 |
| 35 | (34) | 11,90 | 2,27 | 5,24 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 10,82 | 9,07 | 1,19 |
| -7 | (-8) | 14,35 | 7,98 | 1,80 |
| -2 | (-3) | 16,32 | 8,36 | 1,95 |
| 2 | (1) | 19,93 | 8,41 | 2,37 |
| 7 | (6) | 18,42 | 6,80 | 2,71 |
| 15 | (14) | 19,34 | 5,48 | 3,53 |
| 20 | (19) | 20,83 | 5,57 | 3,74 |
| 25 | (24) | 20,72 | 5,25 | 3,95 |
| 30 | (29) | 22,11 | 5,33 | 4,15 |
| 35 | (34) | 11,51 | 2,59 | 4,44 |
| d.b. | (w.b.) | Water flow temperature 55 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 10,07 | 8,51 | 1,18 |
| -2 | (-3) | 12,61 | 8,87 | 1,42 |
| 2 | (1) | 17,73 | 8,25 | 2,15 |
| 7 | (6) | 18,40 | 7,70 | 2,39 |
| 15 | (14) | 19,18 | 5,95 | 3,22 |
| 20 | (19) | 20,38 | 5,92 | 3,44 |
| 25 | (24) | 20,04 | 5,47 | 3,67 |
| 30 | (29) | 21,15 | 5,43 | 3,89 |
| 35 | (34) | 11,12 | 2,92 | 3,81 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 8,04 | 7,43 | 1,08 |
| -2 | (-3) | 10,72 | 8,81 | 1,22 |
| 2 | (1) | 16,84 | 8,57 | 1,96 |
| 7 | (6) | 18,38 | 8,61 | 2,13 |
| 15 | (14) | 19,02 | 6,42 | 2,96 |
| 20 | (19) | 19,93 | 6,27 | 3,18 |
| 25 | (24) | 19,35 | 5,68 | 3,40 |
| 30 | (29) | 20,20 | 554 | 3,64 |
| 35 | (34) | - | - | - |

MAGIS M18 T

14

MAGIS M18 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|-------------------------------------|------------------|---------------|----------|
| d.b. | | | |
| Water flow temperature 5 °C | | | |
| 45 | 11,21 | 6,15 | 1,82 |
| 40 | 13,17 | 5,98 | 2,20 |
| 35 | 15,12 | 5,81 | 2,60 |
| 30 | 17,05 | 5,28 | 3,23 |
| 25 | 17,29 | 4,34 | 3,99 |
| 20 | 15,08 | 3,65 | 4,13 |
| 15 | 13,71 | 2,80 | 4,90 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 7 °C | | | |
| 45 | 12,94 | 6,40 | 2,02 |
| 40 | 15,01 | 6,20 | 2,42 |
| 35 | 17,10 | 5,98 | 2,86 |
| 30 | 18,81 | 5,35 | 3,51 |
| 25 | 18,71 | 4,31 | 4,34 |
| 20 | 16,34 | 3,58 | 4,56 |
| 15 | 14,78 | 2,78 | 5,32 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 10 °C | | | |
| 45 | 15,52 | 6,81 | 2,28 |
| 40 | 17,78 | 6,52 | 2,72 |
| 35 | 20,05 | 6,24 | 3,21 |
| 30 | 21,45 | 5,46 | 3,93 |
| 25 | 20,83 | 4,27 | 4,88 |
| 20 | 18,22 | 3,48 | 5,24 |
| 15 | 16,37 | 2,75 | 5,95 |
| 10 | 15,17 | 2,20 | 6,87 |
| 5 | 13,21 | 1,89 | 6,97 |

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|-------------------------------------|------------------|---------------|----------|
| d.b. | | | |
| Water flow temperature 13 °C | | | |
| 45 | 17,04 | 6,78 | 2,51 |
| 40 | 19,344 | 6,45 | 3,00 |
| 35 | 21,650 | 6,12 | 3,54 |
| 30 | 22,67 | 5,24 | 4,32 |
| 25 | 20,73 | 3,82 | 5,43 |
| 20 | 19,36 | 3,25 | 5,96 |
| 15 | 16,47 | 2,50 | 6,60 |
| 10 | 15,05 | 2,04 | 7,38 |
| 5 | 13,06 | 1,70 | 7,65 |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 15 °C | | | |
| 45 | 18,00 | 6,55 | 2,75 |
| 40 | 20,09 | 6,14 | 3,27 |
| 35 | 22,17 | 5,72 | 3,88 |
| 30 | 23,32 | 4,91 | 4,75 |
| 25 | 20,52 | 3,43 | 5,98 |
| 20 | 18,20 | 2,81 | 6,46 |
| 15 | 15,86 | 2,25 | 7,03 |
| 10 | 14,30 | 1,85 | 7,71 |
| 5 | 11,43 | 1,41 | 8,10 |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 18 °C | | | |
| 45 | 18,28 | 5,90 | 3,10 |
| 40 | 19,97 | 5,39 | 3,70 |
| 35 | 21,66 | 4,89 | 4,43 |
| 30 | 22,90 | 4,20 | 5,45 |
| 25 | 20,70 | 3,01 | 6,88 |
| 20 | 18,08 | 2,49 | 7,26 |
| 15 | 15,46 | 2,01 | 7,70 |
| 10 | 13,72 | 1,67 | 8,20 |
| 5 | 12,46 | 1,42 | 8,76 |

14.1 "MAGIS M18 T "POWER" AND "EER" IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|--------------|-------------------------------------|---------------|----------|
| d.b. | Water flow temperature 22 °C | | |
| 45 | 20,98 | 5,87 | 3,57 |
| 40 | 22,40 | 5,19 | 4,31 |
| 35 | 23,83 | 4,52 | 5,27 |
| 30 | 25,36 | 3,89 | 6,52 |
| 25 | 23,04 | 2,80 | 8,23 |
| 20 | 20,03 | 2,38 | 8,42 |
| 15 | 17,06 | 1,98 | 8,61 |
| 10 | 15,06 | 1,70 | 8,82 |
| 5 | 13,82 | 1,43 | 9,62 |
| | | | |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 25 °C | | |
| 45 | 23,00 | 5,85 | 3,93 |
| 40 | 24,23 | 5,05 | 4,80 |
| 35 | 25,46 | 4,24 | 6,01 |
| 30 | 27,20 | 3,66 | 7,43 |
| 25 | 24,80 | 2,64 | 9,39 |
| 20 | 21,50 | 2,30 | 9,36 |
| 15 | 18,25 | 1,96 | 9,32 |
| 10 | 16,07 | 1,73 | 9,28 |
| 5 | 14,84 | 1,44 | 10,26 |

MAGIS M22 T

15 MAGIS M22 T “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | | Max. Output (kW) | Max. Ass.(kW) | Max. COP |
|--------------|---------------|-------------------------------------|---------------|----------|
| d.b. | (w.b.) | Water flow temperature 30 °C | | |
| -25 | (-26) | 7,99 | 5,85 | 1,37 |
| -20 | (-21) | 11,06 | 5,71 | 1,94 |
| -15 | (-16) | 17,16 | 7,18 | 2,39 |
| -7 | (-8) | 22,35 | 8,40 | 2,66 |
| -2 | (-3) | 24,21 | 8,05 | 3,01 |
| 2 | (1) | 23,35 | 6,96 | 3,36 |
| 7 | (6) | 26,00 | 6,21 | 4,18 |
| 15 | (14) | 28,91 | 6,48 | 4,46 |
| 20 | (19) | 28,64 | 6,17 | 4,64 |
| 25 | (24) | 28,91 | 6,01 | 4,81 |
| 30 | (29) | 30,92 | 6,22 | 4,97 |
| 35 | (34) | 12,75 | 1,73 | 7,35 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | |
| -25 | (-26) | 7,37 | 6,34 | 1,16 |
| -20 | (-21) | 10,22 | 6,19 | 1,65 |
| -15 | (-16) | 15,91 | 7,35 | 2,17 |
| -7 | (-8) | 21,28 | 8,70 | 2,44 |
| -2 | (-3) | 23,36 | 8,47 | 2,76 |
| 2 | (1) | 23,24 | 7,69 | 3,02 |
| 7 | (6) | 24,92 | 6,47 | 3,85 |
| 15 | (14) | 28,05 | 6,79 | 4,13 |
| 20 | (19) | 27,75 | 6,41 | 4,33 |
| 25 | (24) | 27,99 | 6,19 | 4,52 |
| 30 | (29) | 29,90 | 6,36 | 4,70 |
| 35 | (34) | 12,46 | 1,92 | 6,48 |
| d.b. | (w.b.) | Water flow temperature 40 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | 9,38 | 6,66 | 1,41 |
| -15 | (-16) | 14,24 | 8,56 | 1,66 |
| -7 | (-8) | 20,57 | 9,22 | 2,23 |
| -2 | (-3) | 22,91 | 9,22 | 2,49 |
| 2 | (1) | 23,13 | 8,42 | 2,75 |
| 7 | (6) | 23,89 | 7,09 | 3,37 |
| 15 | (14) | 27,18 | 7,09 | 3,83 |
| 20 | (19) | 26,86 | 6,64 | 4,04 |
| 25 | (24) | 27,06 | 6,37 | 4,25 |
| 30 | (29) | 28,89 | 6,50 | 4,44 |
| 35 | (34) | 12,16 | 2,11 | 5,77 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 12,51 | 9,82 | 1,27 |
| -7 | (-8) | 19,82 | 9,75 | 2,03 |
| -2 | (-3) | 22,43 | 9,99 | 2,25 |
| 2 | (1) | 23,02 | 9,15 | 2,51 |

| Air Temp. °C | | Max. Output (kW) | Max. Ass.(kW) | Max. COP |
|--------------|---------------|-------------------------------------|---------------|----------|
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| 7 | (6) | 22,65 | 7,51 | 3,02 |
| 15 | (14) | 26,31 | 7,40 | 3,56 |
| 20 | (19) | 26,00 | 6,88 | 3,77 |
| 25 | (24) | 26,14 | 6,55 | 3,99 |
| 30 | (29) | 27,88 | 6,64 | 4,20 |
| 35 | (34) | 11,88 | 2,30 | 5,17 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 11,20 | 10,00 | 1,12 |
| -7 | (-8) | 17,42 | 9,42 | 1,85 |
| -2 | (-3) | 18,92 | 9,59 | 1,97 |
| 2 | (1) | 22,91 | 9,96 | 2,30 |
| 7 | (6) | 22,70 | 8,54 | 2,66 |
| 15 | (14) | 25,45 | 7,66 | 3,32 |
| 20 | (19) | 24,96 | 7,06 | 3,53 |
| 25 | (24) | 24,98 | 6,68 | 3,74 |
| 30 | (29) | 26,52 | 6,72 | 3,95 |
| 35 | (34) | 11,53 | 2,62 | 4,41 |
| d.b. | (w.b.) | Water flow temperature 55 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 12,55 | 10,03 | 1,25 |
| -2 | (-3) | 15,71 | 10,07 | 1,56 |
| 2 | (1) | 21,04 | 9,93 | 2,12 |
| 7 | (6) | 22,77 | 9,09 | 2,51 |
| 15 | (14) | 24,59 | 7,91 | 3,11 |
| 20 | (19) | 23,95 | 7,25 | 3,30 |
| 25 | (24) | 23,83 | 6,80 | 3,50 |
| 30 | (29) | 25,16 | 6,80 | 3,70 |
| 35 | (34) | 11,19 | 2,94 | 3,81 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 9,20 | 7,90 | 1,16 |
| -2 | (-3) | 13,39 | 10,06 | 1,33 |
| 2 | (1) | 19,63 | 10,00 | 1,96 |
| 7 | (6) | 22,44 | 10,55 | 2,13 |
| 15 | (14) | 23,72 | 8,17 | 2,90 |
| 20 | (19) | 22,94 | 7,43 | 3,09 |
| 25 | (24) | 22,67 | 6,93 | 3,27 |
| 30 | (29) | 23,80 | 6,87 | 3,46 |
| 35 | (34) | - | - | - |

16
MAGIS M22 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|---------------------|-------------------------------------|----------------------|-----------------|
| d.b. | Water flow temperature 5 °C | | |
| 45 | 13,99 | 7,81 | 1,79 |
| 40 | 16,24 | 7,48 | 2,17 |
| 35 | 18,94 | 6,61 | 2,87 |
| 30 | 20,01 | 6,45 | 3,10 |
| 25 | 19,17 | 5,17 | 3,71 |
| 20 | 17,27 | 4,48 | 3,85 |
| 15 | 16,14 | 3,43 | 4,70 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 7 °C | | |
| 45 | 15,75 | 8,00 | 1,97 |
| 40 | 18,18 | 7,72 | 2,35 |
| 35 | 20,87 | 7,12 | 2,93 |
| 30 | 21,92 | 6,60 | 3,32 |
| 25 | 20,71 | 5,17 | 4,00 |
| 20 | 18,77 | 4,42 | 4,24 |
| 15 | 17,40 | 3,43 | 5,06 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 10 °C | | |
| 45 | 18,39 | 8,28 | 2,22 |
| 40 | 21,08 | 8,08 | 2,61 |
| 35 | 23,77 | 7,88 | 3,01 |
| 30 | 24,80 | 6,82 | 3,64 |
| 25 | 23,02 | 5,18 | 4,44 |
| 20 | 21,02 | 4,35 | 4,83 |
| 15 | 19,29 | 3,44 | 5,60 |
| 10 | 16,79 | 2,53 | 6,63 |
| 5 | 14,76 | 2,24 | 6,59 |

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|---------------------|-------------------------------------|----------------------|-----------------|
| d.b. | Water flow temperature 13 °C | | |
| 45 | 19,98 | 8,13 | 2,46 |
| 40 | 22,79 | 8,02 | 2,84 |
| 35 | 25,60 | 7,91 | 3,24 |
| 30 | 26,25 | 6,67 | 3,93 |
| 25 | 23,84 | 4,88 | 4,88 |
| 20 | 21,77 | 4,00 | 5,45 |
| 15 | 19,67 | 3,20 | 6,15 |
| 10 | 16,77 | 2,38 | 7,04 |
| 5 | 14,61 | 2,09 | 6,98 |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 15 °C | | |
| 45 | 20,75 | 7,64 | 2,72 |
| 40 | 23,27 | 7,43 | 3,13 |
| 35 | 25,80 | 7,21 | 3,58 |
| 30 | 26,49 | 6,12 | 4,33 |
| 25 | 24,70 | 4,62 | 5,34 |
| 20 | 21,58 | 3,68 | 5,87 |
| 15 | 19,24 | 2,96 | 6,51 |
| 10 | 16,08 | 2,20 | 7,30 |
| 5 | 13,82 | 1,91 | 7,23 |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 18 °C | | |
| 45 | 18,92 | 6,08 | 3,11 |
| 40 | 20,79 | 5,77 | 3,60 |
| 35 | 26,57 | 6,41 | 4,14 |
| 30 | 27,32 | 5,49 | 4,98 |
| 25 | 24,49 | 4,03 | 6,07 |
| 20 | 23,54 | 3,61 | 6,52 |
| 15 | 20,86 | 2,96 | 7,05 |
| 10 | 15,60 | 2,03 | 7,67 |
| 5 | 12,30 | 1,62 | 7,59 |

MAGIS M22 T

16.1 MAGIS M22 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|--------------|-------------------------------------|---------------|----------|
| d.b. | Water flow temperature 22 °C | | |
| 45 | 21,85 | 5,98 | 3,65 |
| 40 | 23,51 | 5,50 | 4,28 |
| 35 | 29,50 | 5,87 | 5,02 |
| 30 | 30,46 | 5,11 | 5,96 |
| 25 | 27,39 | 3,84 | 7,14 |
| 20 | 25,19 | 3,39 | 7,43 |
| 15 | 21,10 | 2,71 | 7,76 |
| 10 | 17,09 | 2,10 | 8,13 |
| 5 | 13,54 | 1,68 | 8,03 |
| | | | |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 25 °C | | |
| 45 | 24,06 | 5,91 | 4,07 |
| 40 | 25,54 | 5,29 | 4,83 |
| 35 | 31,69 | 5,47 | 5,79 |
| 30 | 32,80 | 4,83 | 6,79 |
| 25 | 29,57 | 3,69 | 8,01 |
| 20 | 26,42 | 3,22 | 8,20 |
| 15 | 21,29 | 2,54 | 8,39 |
| 10 | 18,22 | 2,15 | 8,46 |
| 5 | 14,46 | 1,73 | 8,34 |

17

MAGIS M26 T “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | | Max. Output (kW) | Max. Ass.(kW) | Max. COP |
|--------------|---------------|-------------------------------------|---------------|----------|
| d.b. | (w.b.) | Water flow temperature 30 °C | | |
| -25 | (-26) | 7,30 | 5,68 | 1,29 |
| -20 | (-21) | 11,10 | 5,77 | 1,92 |
| -15 | (-16) | 18,85 | 7,39 | 2,55 |
| -7 | (-8) | 23,62 | 8,63 | 2,74 |
| -2 | (-3) | 24,68 | 8,51 | 2,90 |
| 2 | (1) | 25,52 | 7,91 | 3,23 |
| 7 | (6) | 29,93 | 7,46 | 4,01 |
| 15 | (14) | 32,41 | 7,39 | 4,38 |
| 20 | (19) | 32,83 | 7,08 | 4,63 |
| 25 | (24) | 33,75 | 6,93 | 4,87 |
| 30 | (29) | 35,36 | 6,95 | 5,09 |
| 35 | (34) | 12,72 | 1,76 | 7,23 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | |
| -25 | (-26) | 6,90 | 6,16 | 1,12 |
| -20 | (-21) | 10,49 | 6,25 | 1,68 |
| -15 | (-16) | 17,13 | 7,72 | 2,22 |
| -7 | (-8) | 23,46 | 9,31 | 2,52 |
| -2 | (-3) | 24,20 | 8,87 | 2,73 |
| 2 | (1) | 25,44 | 8,78 | 2,90 |
| 7 | (6) | 29,08 | 8,07 | 3,60 |
| 15 | (14) | 30,79 | 7,79 | 3,95 |
| 20 | (19) | 32,47 | 7,72 | 4,21 |
| 25 | (24) | 33,14 | 7,45 | 4,45 |
| 30 | (29) | 34,51 | 7,36 | 4,69 |
| 35 | (34) | 12,43 | 1,95 | 6,38 |
| d.b. | (w.b.) | Water flow temperature 40 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | 9,88 | 6,73 | 1,47 |
| -15 | (-16) | 14,32 | 8,88 | 1,61 |
| -7 | (-8) | 22,07 | 9,64 | 2,29 |
| -2 | (-3) | 24,14 | 9,74 | 2,48 |
| 2 | (1) | 25,80 | 9,82 | 2,63 |
| 7 | (6) | 28,24 | 8,69 | 3,25 |
| 15 | (14) | 30,70 | 8,53 | 3,60 |
| 20 | (19) | 30,47 | 7,93 | 3,84 |
| 25 | (24) | 32,53 | 7,96 | 4,08 |
| 30 | (29) | 33,66 | 7,785 | 4,32 |
| 35 | (34) | 12,14 | 2,13 | 5,68 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 11,41 | 10,07 | 1,13 |
| -7 | (-8) | 21,45 | 10,31 | 2,08 |
| -2 | (-3) | 24,07 | 10,63 | 2,26 |
| 2 | (1) | 26,17 | 10,89 | 2,40 |

| Air Temp. °C | | Max. Output (kW) | Max. Ass.(kW) | Max. COP |
|--------------|---------------|-------------------------------------|---------------|----------|
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| 7 | (6) | 27,39 | 9,30 | 2,94 |
| 15 | (14) | 30,62 | 9,28 | 3,30 |
| 20 | (19) | 30,12 | 8,53 | 3,53 |
| 25 | (24) | 31,92 | 8,48 | 3,76 |
| 30 | (29) | 33,72 | 8,43 | 4,00 |
| 35 | (34) | 11,85 | 2,32 | 5,10 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 11,26 | 10,76 | 1,05 |
| -7 | (-8) | 20,45 | 10,80 | 1,89 |
| -2 | (-3) | 22,10 | 11,10 | 1,99 |
| 2 | (1) | 25,97 | 11,61 | 2,24 |
| 7 | (6) | 27,12 | 10,38 | 2,61 |
| 15 | (14) | 28,93 | 9,18 | 3,15 |
| 20 | (19) | 28,45 | 8,48 | 3,35 |
| 25 | (24) | 30,14 | 8,47 | 3,56 |
| 30 | (29) | 31,84 | 8,46 | 3,76 |
| 35 | (34) | 11,56 | 2,64 | 4,37 |
| d.b. | (w.b.) | Water flow temperature 55 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 15,28 | 11,63 | 1,31 |
| -2 | (-3) | 18,39 | 10,78 | 1,71 |
| 2 | (1) | 23,10 | 11,05 | 2,09 |
| 7 | (6) | 26,84 | 11,46 | 2,34 |
| 15 | (14) | 26,55 | 8,85 | 3,00 |
| 20 | (19) | 26,78 | 8,43 | 3,18 |
| 25 | (24) | 28,36 | 8,46 | 3,35 |
| 30 | (29) | 29,95 | 8,49 | 3,53 |
| 35 | (34) | 11,26 | 2,96 | 3,81 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 11,51 | 9,70 | 1,19 |
| -2 | (-3) | 15,96 | 10,99 | 1,45 |
| 2 | (1) | 21,59 | 11,02 | 1,96 |
| 7 | (6) | 24,30 | 11,47 | 2,12 |
| 15 | (14) | 24,90 | 8,75 | 2,85 |
| 20 | (19) | 25,10 | 8,37 | 3,00 |
| 25 | (24) | 26,58 | 8,45 | 3,15 |
| 30 | (29) | 28,06 | 8,52 | 3,29 |
| 35 | (34) | - | - | - |

MAGIS M26 T

18

MAGIS M26 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|-------------------------------------|------------------|---------------|----------|
| d.b. | | | |
| Water flow temperature 5 °C | | | |
| 45 | 14,42 | 8,17 | 1,76 |
| 40 | 19,54 | 9,11 | 2,14 |
| 35 | 23,50 | 9,14 | 2,57 |
| 30 | 25,19 | 8,42 | 2,99 |
| 25 | 25,08 | 7,24 | 3,47 |
| 20 | 20,56 | 5,69 | 3,62 |
| 15 | 18,59 | 4,12 | 4,51 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 7 °C | | | |
| 45 | 15,88 | 8,24 | 1,93 |
| 40 | 21,49 | 9,37 | 2,29 |
| 35 | 25,84 | 9,61 | 2,69 |
| 30 | 27,41 | 8,68 | 3,16 |
| 25 | 27,06 | 7,28 | 3,71 |
| 20 | 22,42 | 5,66 | 3,96 |
| 15 | 20,06 | 4,15 | 4,83 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 10 °C | | | |
| 45 | 18,06 | 8,33 | 2,17 |
| 40 | 24,43 | 9,76 | 2,50 |
| 35 | 29,35 | 10,32 | 2,84 |
| 30 | 30,75 | 9,07 | 3,39 |
| 25 | 30,02 | 7,35 | 4,08 |
| 20 | 25,22 | 5,62 | 4,49 |
| 15 | 22,26 | 4,20 | 5,30 |
| 10 | 22,00 | 3,42 | 6,42 |
| 5 | 17,05 | 27,3 | 6,25 |

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|-------------------------------------|------------------|---------------|----------|
| d.b. | | | |
| Water flow temperature 13 °C | | | |
| 45 | 18,69 | 7,78 | 2,40 |
| 40 | 25,59 | 9,49 | 2,70 |
| 35 | 31,53 | 10,58 | 2,98 |
| 30 | 32,67 | 9,06 | 3,61 |
| 25 | 31,49 | 7,09 | 4,44 |
| 20 | 26,50 | 5,27 | 5,02 |
| 15 | 23,70 | 4,11 | 5,76 |
| 10 | 21,61 | 3,21 | 6,74 |
| 5 | 16,93 | 2,63 | 6,42 |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 15 °C | | | |
| 45 | 20,60 | 7,67 | 2,68 |
| 40 | 27,74 | 9,23 | 3,01 |
| 35 | 32,32 | 9,72 | 3,32 |
| 30 | 33,50 | 8,41 | 3,98 |
| 25 | 32,18 | 6,65 | 4,84 |
| 20 | 26,64 | 4,95 | 5,38 |
| 15 | 22,69 | 3,74 | 6,06 |
| 10 | 21,14 | 3,05 | 6,93 |
| 5 | 16,18 | 2,47 | 6,53 |
| Air Temp. °C | | | |
| Max. Output (kW) | | | |
| Max. Ass.(kW) | | | |
| EER Max. | | | |
| d.b. | | | |
| Water flow temperature 18 °C | | | |
| 45 | 18,90 | 6,05 | 3,12 |
| 40 | 20,89 | 5,96 | 3,51 |
| 35 | 29,20 | 7,49 | 3,90 |
| 30 | 33,52 | 7,30 | 4,59 |
| 25 | 33,70 | 6,17 | 5,46 |
| 20 | 27,37 | 4,61 | 5,93 |
| 15 | 22,86 | 3,51 | 6,51 |
| 10 | 21,01 | 2,91 | 7,21 |
| 5 | 15,62 | 2,34 | 6,67 |

18.1 MAGIS M26 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|--------------|-------------------------------------|---------------|----------|
| d.b. | Water flow temperature 22 °C | | |
| 45 | 21,98 | 5,88 | 3,74 |
| 40 | 23,81 | 5,61 | 4,24 |
| 35 | 32,70 | 6,82 | 4,80 |
| 30 | 37,60 | 6,83 | 5,50 |
| 25 | 37,86 | 5,99 | 6,32 |
| 20 | 30,49 | 4,56 | 6,68 |
| 15 | 25,24 | 3,56 | 7,08 |
| 10 | 22,99 | 3,04 | 7,55 |
| 5 | 17,04 | 2,49 | 6,85 |
| | | | |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 25 °C | | |
| 45 | 24,29 | 5,75 | 4,22 |
| 40 | 25,99 | 5,35 | 4,86 |
| 35 | 35,33 | 6,31 | 5,60 |
| 30 | 40,67 | 6,49 | 6,27 |
| 25 | 40,99 | 5,84 | 7,01 |
| 20 | 32,83 | 4,53 | 7,24 |
| 15 | 27,03 | 3,60 | 7,50 |
| 10 | 24,48 | 3,14 | 7,79 |
| 5 | 18,10 | 2,60 | 6,96 |

MAGIS M30 T

19 MAGIS M30 T “POWER” AND “COP” IN HEATING

• TOL = -25 °C;

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | Max. COP | |
|--------------|------------------|-------------------------------------|----------|------|
| d.b. | (w.b.) | Water flow temperature 30 °C | | |
| -25 | (-26) | 7,40 | 6,21 | 1,19 |
| -20 | (-21) | 11,25 | 6,30 | 1,79 |
| -15 | (-16) | 19,10 | 8,08 | 2,36 |
| -7 | (-8) | 23,94 | 9,42 | 2,54 |
| -2 | (-3) | 25,01 | 9,30 | 2,69 |
| 2 | (1) | 24,99 | 8,07 | 3,10 |
| 7 | (6) | 31,18 | 8,10 | 3,85 |
| 15 | (14) | 31,83 | 7,40 | 4,30 |
| 20 | (19) | 32,63 | 7,05 | 4,63 |
| 25 | (24) | 33,87 | 6,87 | 4,93 |
| 30 | (29) | 36,74 | 7,03 | 5,22 |
| 35 | (34) | 12,69 | 1,78 | 7,12 |
| d.b. | (w.b.) | Water flow temperature 35 °C | | |
| -25 | (-26) | 7,09 | 6,80 | 1,04 |
| -20 | (-21) | 10,77 | 6,90 | 1,56 |
| -15 | (-16) | 17,59 | 8,52 | 2,06 |
| -7 | (-8) | 23,26 | 9,93 | 2,34 |
| -2 | (-3) | 24,85 | 9,79 | 2,54 |
| 2 | (1) | 26,02 | 9,08 | 2,86 |
| 7 | (6) | 31,75 | 9,51 | 3,34 |
| 15 | (14) | 32,69 | 8,64 | 3,79 |
| 20 | (19) | 32,98 | 8,07 | 4,08 |
| 25 | (24) | 33,76 | 7,71 | 4,38 |
| 30 | (29) | 36,20 | 7,75 | 4,67 |
| 35 | (34) | 12,40 | 1,97 | 6,29 |
| d.b. | (w.b.) | Water flow temperature 40 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | 10,29 | 7,50 | 1,37 |
| -15 | (-16) | 14,91 | 9,88 | 1,51 |
| -7 | (-8) | 22,98 | 10,73 | 2,14 |
| -2 | (-3) | 25,14 | 10,84 | 2,32 |
| 2 | (1) | 25,96 | 10,22 | 2,54 |
| 7 | (6) | 30,82 | 9,81 | 3,14 |
| 15 | (14) | 34,33 | 10,10 | 3,40 |
| 20 | (19) | 34,15 | 9,32 | 3,66 |
| 25 | (24) | 34,53 | 8,77 | 3,94 |
| 30 | (29) | 36,59 | 8,68 | 4,21 |
| 35 | (34) | 12,11 | 2,16 | 5,61 |
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 12,05 | 11,29 | 1,07 |
| -7 | (-8) | 22,66 | 11,56 | 1,96 |
| -2 | (-3) | 25,43 | 11,93 | 2,13 |
| 2 | (1) | 28,19 | 12,32 | 2,29 |

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | Max. COP | |
|--------------|------------------|-------------------------------------|----------|------|
| d.b. | (w.b.) | Water flow temperature 45 °C | | |
| 7 | (6) | 31,00 | 11,27 | 2,75 |
| 15 | (14) | 36,01 | 11,63 | 3,09 |
| 20 | (19) | 35,34 | 10,62 | 3,33 |
| 25 | (24) | 35,30 | 9,88 | 3,57 |
| 30 | (29) | 36,94 | 9,66 | 3,83 |
| 35 | (34) | 11,82 | 2,35 | 5,03 |
| d.b. | (w.b.) | Water flow temperature 50 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | 11,84 | 11,46 | 1,03 |
| -7 | (-8) | 21,51 | 11,94 | 1,80 |
| -2 | (-3) | 23,24 | 12,27 | 1,89 |
| 2 | (1) | 26,39 | 12,00 | 2,20 |
| 7 | (6) | 31,08 | 12,10 | 2,57 |
| 15 | (14) | 34,02 | 11,33 | 3,00 |
| 20 | (19) | 33,61 | 10,51 | 3,20 |
| 25 | (24) | 33,76 | 9,94 | 3,40 |
| 30 | (29) | 35,49 | 9,86 | 3,60 |
| 35 | (34) | 11,58 | 2,66 | 4,34 |
| d.b. | (w.b.) | Water flow temperature 55 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 16,54 | 13,78 | 1,20 |
| -2 | (-3) | 19,93 | 12,79 | 1,56 |
| 2 | (1) | 24,65 | 12,49 | 1,97 |
| 7 | (6) | 30,56 | 13,82 | 2,21 |
| 15 | (14) | 32,58 | 11,24 | 2,90 |
| 20 | (19) | 32,47 | 10,62 | 3,06 |
| 25 | (24) | 32,87 | 10,22 | 3,22 |
| 30 | (29) | 34,72 | 10,30 | 3,37 |
| 35 | (34) | 11,33 | 2,98 | 3,80 |
| d.b. | (w.b.) | Water flow temperature 60 °C | | |
| -25 | (-26) | - | - | - |
| -20 | (-21) | - | - | - |
| -15 | (-16) | - | - | - |
| -7 | (-8) | 16,54 | 13,78 | 1,20 |
| -2 | (-3) | 19,93 | 12,79 | 1,56 |
| 2 | (1) | 24,65 | 12,49 | 1,97 |
| 7 | (6) | 30,56 | 13,82 | 2,21 |
| 15 | (14) | 32,58 | 11,23 | 2,90 |
| 20 | (19) | 32,47 | 10,62 | 3,06 |
| 25 | (24) | 32,87 | 10,22 | 3,22 |
| 30 | (29) | 34,72 | 10,30 | 3,37 |
| 35 | (34) | 11,33 | 2,98 | 3,80 |

20
MAGIS M30 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|---------------------|-------------------------------------|----------------------|-----------------|
| d.b. | Water flow temperature 5 °C | | |
| 45 | 15,20 | 8,73 | 1,74 |
| 40 | 20,40 | 9,62 | 2,12 |
| 35 | 29,43 | 13,70 | 2,15 |
| 30 | 29,51 | 10,21 | 2,89 |
| 25 | 28,23 | 8,66 | 3,26 |
| 20 | 21,91 | 6,51 | 3,36 |
| 15 | 21,09 | 4,85 | 4,35 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 7 °C | | |
| 45 | 16,40 | 8,68 | 1,89 |
| 40 | 22,09 | 9,86 | 2,24 |
| 35 | 29,73 | 12,70 | 2,34 |
| 30 | 31,91 | 10,59 | 3,01 |
| 25 | 30,41 | 8,76 | 3,47 |
| 20 | 25,48 | 6,85 | 3,72 |
| 15 | 22,77 | 4,92 | 4,63 |
| 10 | - | - | - |
| 5 | - | - | - |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 10 °C | | |
| 45 | 18,20 | 8,60 | 2,12 |
| 40 | 24,62 | 10,23 | 2,41 |
| 35 | 30,19 | 11,21 | 2,69 |
| 30 | 35,51 | 11,17 | 3,18 |
| 25 | 33,68 | 8,91 | 3,78 |
| 20 | 30,82 | 7,35 | 4,19 |
| 15 | 25,29 | 5,02 | 5,04 |
| 10 | 24,48 | 3,93 | 6,23 |
| 5 | 18,67 | 3,14 | 5,95 |

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|---------------------|-------------------------------------|----------------------|-----------------|
| d.b. | Water flow temperature 13 °C | | |
| 45 | 18,45 | 7,86 | 2,35 |
| 40 | 25,38 | 9,90 | 2,56 |
| 35 | 33,40 | 12,10 | 2,76 |
| 30 | 35,56 | 10,67 | 3,33 |
| 25 | 35,45 | 8,69 | 4,08 |
| 20 | 30,53 | 6,54 | 4,67 |
| 15 | 26,26 | 4,83 | 5,43 |
| 10 | 25,01 | 3,87 | 6,46 |
| 5 | 18,49 | 3,11 | 5,94 |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 15 °C | | |
| 45 | 20,45 | 7,70 | 2,65 |
| 40 | 27,68 | 9,58 | 2,89 |
| 35 | 35,98 | 11,59 | 3,10 |
| 30 | 38,29 | 10,38 | 3,69 |
| 25 | 36,54 | 8,25 | 4,43 |
| 20 | 30,99 | 6,22 | 4,98 |
| 15 | 26,21 | 4,61 | 5,68 |
| 10 | 25,50 | 3,86 | 6,61 |
| 5 | 17,71 | 2,98 | 5,94 |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 18 °C | | |
| 45 | 18,89 | 6,02 | 3,14 |
| 40 | 21,00 | 6,15 | 3,42 |
| 35 | 31,88 | 8,65 | 3,68 |
| 30 | 33,91 | 7,95 | 4,27 |
| 25 | 35,95 | 7,24 | 4,96 |
| 20 | 32,18 | 5,90 | 5,45 |
| 15 | 27,56 | 4,55 | 6,05 |
| 10 | 24,76 | 3,63 | 6,81 |
| 5 | 17,14 | 2,89 | 5,94 |

MAGIS M30 T

20.1 MAGIS M30 T “POWER” AND “EER” IN COOLING

| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
|--------------|-------------------------------------|---------------|----------|
| d.b. | Water flow temperature 22 °C | | |
| 45 | 22,11 | 5,78 | 3,83 |
| 40 | 24,11 | 5,72 | 4,21 |
| 35 | 33,31 | 7,24 | 4,60 |
| 30 | 38,29 | 7,47 | 5,12 |
| 25 | 40,58 | 7,12 | 5,70 |
| 20 | 35,94 | 5,91 | 6,08 |
| 15 | 30,45 | 4,67 | 6,52 |
| 10 | 27,05 | 3,83 | 7,06 |
| 5 | 18,53 | 3,12 | 5,94 |
| | | | |
| Air Temp. °C | Max. Output (kW) | Max. Ass.(kW) | EER Max. |
| d.b. | Water flow temperature 25 °C | | |
| 45 | 24,52 | 5,59 | 4,38 |
| 40 | 26,44 | 5,41 | 4,89 |
| 35 | 34,38 | 6,18 | 5,56 |
| 30 | 41,58 | 7,12 | 5,84 |
| 25 | 44,05 | 7,03 | 6,27 |
| 20 | 38,76 | 5,92 | 6,54 |
| 15 | 32,62 | 4,75 | 6,86 |
| 10 | 28,78 | 3,98 | 7,22 |
| 5 | 19,58 | 3,16 | 6,20 |

During the useful life of the products, performance is affected by external factors, e.g. the hardness of the DHW, atmospheric agents, deposits in the system and so on.

The declared data refer to new products that are correctly installed and used in observance of the Standards in force.

N.B.: correct periodic maintenance is highly recommended.

NOTE: Depending on the specific design and installation conditions, the diagrams and drawings provided in this documentation can require further integration or modifications, according to what is set forth by the Standards and technical regulations in force and applicable (as an example, the R stamp - edition 2009 is mentioned). It is the professional's responsibility to identify the applicable provisions, to evaluate compliance with these in each case and the necessity of any changes to diagrams and drawings.



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To request further specific details, sector Professionals can also use the following e-mail address:
consulenza@immergas.com

Immergas S.p.A.
42041 Brescello (RE) - Italy
Tel. 0522.689011
Fax 0522.680617



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