

Technical Data Sheet



Air



Ground



Water

Air/Water Heat Pump 30 | 40 | 55 kW



Heliotherm Sensor Solid Split

The Air/Water Split Design heat pump based on a stepless performance control, electronic expansion valve with DSI technology, twin-X technology, REMOTE CONTROL heat pump control, sound-optimized case design, PV connection, Smart Grid Ready, and possible active cooling mode.

Sensor Solid Split Advantages

- Minimum operating costs due to a COP of up to 5,2
- Exceptionally silent in operation due to its acoustic optimized custom designed case
- Efficient solution for refurbishing projects with a max. heating outlet temperature of up to 62 °C
- Very quiet operation (indoor and outdoor unit) through the sound-optimized customized case
- Heat pump system optimization and easy to operate by means of REMOTE CONTROL
- Integral building control through integrated KNX connection
- Energetically optimized heat pump operation in connection to a photovoltaic system
- Pleasant room climate in warm summer days through active cooling (optional)



Technical Data

| Typ Sensor Solid Split | | S30L-M-Solid | S40L-M-Solid | S55L-M-Solid |
|--|--------------------|----------------------|----------------------|----------------------|
| Energy source | | | | |
| Air volume | m ³ /h | 4.000 - 10.000 | 4.000 - 10.000 | 6.000 - 15.000 |
| Evaporator area | m ² | 240 | 240 | 360 |
| Min. air inlet flow temperature | °C | -25 | -25 | -25 |
| Max. air inlet flow temperature | °C | 45 | 45 | 45 |
| Cooling Mode | | | | |
| Min. air inlet flow temperature | °C | 10 | 10 | 10 |
| Max. air inlet flow temperature | °C | 45 | 45 | 45 |
| Heating water at 5 K Temperature difference | | | | |
| Content | liter | 6,5 | 9,5 | 13 |
| Volume flow | m ³ /h | 2,2 - 4,7 | 3,1 - 6,9 | 4,4 - 9,3 |
| Pressure loss | m H ₂ O | 2,8 | 2,9 | 3,1 |
| Max. outlet temperature at A0°C | °C | 62 | 62 | 58 |
| Electric values | | | | |
| Nominal voltage | | 3/N/PE 400 V / 50 Hz | 3/N/PE 400 V / 50 Hz | 3/N/PE 400 V / 50 Hz |
| Max. nominal voltage | A | 26 | 31 | 52 |
| Starting current | A | 10 | 12 | 18 |
| Fuse protection characteristics G | A | 32 | 32 | 50 |
| Max. nominal current- fan | A | 1 | 2 | 2 |
| Fan protection | A | thermal relay | thermal relay | thermal relay |
| Nominal control circuit | V | 1/N/PE 230 V/50 Hz | 1/N/PE 230 V/50 Hz | 1/N/PE 230 V/50 Hz |
| Protection control circuit | A | 13 | 13 | 13 |
| Power consumption | | | | |
| Fan | W | 120 - 380 | 120 - 380 | 180 - 570 |
| Max. power consumption- compressor | kW | 7,6 | 13 | 15,2 |
| Refrigerant cycle | | | | |
| Working fluid | | R-410A | R-410A | R-410A |
| Fill amount at 10 m split lines | kg | 17 | 18 | 34 |
| Fill amount reversible at 10 m split lines | kg | 20 | 20 | 34 |
| Compressor | Typ | Scroll | Scroll | Scroll |
| Compressor speed | 1/min | 900 - 7.200 | 1.200 - 6.000 | 900 - 7.200 |
| Oil amount | liter | 2,3 | 2,3 | 2,3 |
| Oil type | | FVC68D | FVC68D | MA32R |



Technical Data

| Type Sensor Solid Brine | | S30L-M-Solid | S40L-M-Solid | S55L-M-Solid |
|-------------------------------------|------|--------------|--------------|--------------|
| Indoor unit dimensions | | | | |
| Total length | mm | 715 | 715 | 1.703 |
| Total width | mm | 687 | 687 | 913 |
| Total height | mm | 1.602 | 1.602 | 1.700 |
| Outdoor unit dimensions | | | | |
| Total length | mm | 1.998 | 1.998 | 2.953 |
| Total width | mm | 1.137 | 1.137 | 1.137 |
| Total height | mm | 1.506 | 1.506 | 1.506 |
| Indoor unit - total weight | kg | 210 | 250 | 380 |
| Outdoor unit - total weight | kg | 281 | 281 | 455 |
| Permitted operating pressure | bar | 3 | 3 | 3 |
| Connections indoor unit | | | | |
| Heating water Heating out-and inlet | Inch | 6/4" | 2" | 2 1/2" |
| Suction line | mm | 28 | 28 | 35 |
| Liquid line | mm | 22 | 22 | 22 |
| Connections outdoor unit | | | | |
| Suction line | mm | 42 | 42 | 42 |
| Liquid line | mm | 28 | 28 | 35 |

Acoustic Technical Data

Type Sensor Solid Split 30 kW with outdoor evaporator Silent Source 240

| A-Rated acoustic capacity & level in heating mode at A7(±3 K)/W35 (±1 K) | | Indoor unit | Outdoor unit standing unit |
|---|-------|-------------|-------------------------------|
| Min. heating output | dB(A) | 42 | 42 |
| Max. heating output | dB(A) | 53 | 54 |

Type Sensor Solid Split 40 kW with outdoor evaporator Silent Source 240

| A-Rated acoustic capacity & level in heating mode at A7(±3 K)/W35 (±1 K) | | Indoor unit | Outdoor unit standing unit |
|---|-------|-------------|-------------------------------|
| Min. heating output | dB(A) | 42 | 42 |
| Max. heating output | dB(A) | 54 | 54 |

Type Sensor Solid Split 55 kW with outdoor evaporator Silent Source 300

| A-Rated acoustic capacity & level in heating mode at A7(±3 K)/W35 (±1 K) | | Indoor unit | Outdoor unit standing unit |
|---|-------|-------------|-------------------------------|
| Min. heating output | dB(A) | 42 | 44 |
| Max. heating output | dB(A) | 56 | 58 |



Performance Data Sensor Solid Split 30

acc. EN14825 (calculated values; errors reserved)
Operating limit temperature TOL = -25 °C

Bivalent temperature for climate zone "medium"

| H. Outlet temperature level | T _{bivalent} [°C] |
|-----------------------------|----------------------------|
| high (55°C) | -10 |

Bivalent temperature for climate zone "colder"

| H. Outlet temperature level | T _{bivalent} [°C] |
|-----------------------------|----------------------------|
| lower (35°C) | -17 |
| medium (45°C) | -15 |
| high (55°C) | -15 |

Full load and Seasonal Performance Factor in heating mode

| Climate zone | H. Outlet temperature level | P _{desinh} [kW] | QHE [kWh] | SCOP | ηS [%] |
|---------------------|-----------------------------|--------------------------|-----------|------|--------|
| medium (Strasbourg) | low (35°C) | 27,3 | 7612 | 5,07 | 200 |
| | medium (45°C) | 24,0 | 8175 | 4,11 | 161 |
| | high (55°C) | 25,1 | 9739 | 3,83 | 150 |
| warmer (Athens) | low (35°C) | 30,0 | 6646 | 6,32 | 250 |
| | medium (45°C) | 30,0 | 7880 | 5,33 | 210 |
| | high (55°C) | 30,0 | 9396 | 4,47 | 176 |
| colder (Helsinki) | low (35°C) | 28,0 | 13213 | 4,45 | 175 |
| | medium (45°C) | 28,0 | 16333 | 3,60 | 141 |
| | high (55°C) | 28,0 | 19153 | 3,07 | 120 |

Full load in cooling mode for ceiling cooling applications
SPF in cooling mode for ceiling cooling applications

P_{desinh} = 20 kW
SEER = 6,50

Full load in cooling mode for convector fans
SPF in cooling mode for convector fans

P_{desinh} = 20 kW
SEER = 6,14

Power consumption in operating modes other than the operating state

| | |
|--|--------|
| Power Off P _{OFF} | 14,1 W |
| Temperature Controller Off P _{TO} | 14,2 W |
| Standby mode P _{SB} | 14,1 W |



Performance Sensor Solid Split 30 (Continued)

Acc. to EN14511

| Measuring point | | A-7W35 | A2W35 | A7W35 | A7W55 (8K) |
|-------------------------------|----|--------|-------|-------|------------|
| Heating capacity ¹ | kW | 14,86 | 14,58 | 15,35 | 11,91 |
| COP | | 3,35 | 4,56 | 5,36 | 3,08 |

¹Heating output stated at 50% part load ratio

Acc. to EN14825

Partial loads and COPs for the reference heating season, "medium" (Strasbourg)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity _{Pdh} [kW] | COP _d |
|-------------------|-----------------|------------------------|--------------------------------------|------------------|
| low (35°C) | A12/W24 | 15 | 12,44 | 7,98 |
| | A7/W27 | 35 | 13,58 | 6,45 |
| | A2/W30 | 54 | 14,63 | 5,19 |
| | A-7/W34 | 88 | 24,62 | 2,96 |
| | A-10/W35 | 100 | 27,30 | 2,45 |
| medium (45°C) | A12/W28 | 15 | 12,45 | 6,55 |
| | A7/W33 | 35 | 13,28 | 4,87 |
| | A2/W37 | 54 | 14,33 | 4,30 |
| | A-7/W43 | 88 | 24,32 | 2,43 |
| | A-10/W45 | 100 | 27,00 | 2,02 |
| high (55°C) | A12/W30 | 15 | 12,49 | 6,28 |
| | A7/W36 | 35 | 10,92 | 5,11 |
| | A2/W42 | 54 | 13,79 | 3,90 |
| | A-7/W52 | 88 | 22,64 | 2,11 |
| | A-10/W55 | 100 | 25,06 | 1,70 |

Partial loads and COPs for the reference heating season, "warmer" (Athens)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity _{Pdh} [kW] | COP _d |
|-------------------|-----------------|------------------------|--------------------------------------|------------------|
| low (35°C) | A12/W26 | 29 | 11,46 | 6,94 |
| | A7/W31 | 64 | 19,17 | 6,07 |
| | A2/W35 | 100 | 30,24 | 4,23 |
| medium (45°C) | A12/W31 | 29 | 10,67 | 6,21 |
| | A7/W39 | 64 | 19,57 | 4,95 |
| | A2/W45 | 100 | 29,98 | 2,98 |
| high (55°C) | A12/W34 | 29 | 10,27 | 5,71 |
| | A7/W46 | 64 | 19,02 | 3,90 |
| | A2/W55 | 100 | 29,98 | 2,04 |



Performance Data Sensor Solid Split 30 (Continued)

Partial loads and COPs for the reference heating season, "colder" (Helsinki)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity P_{dH} [kW] | COP _d |
|-------------------|-----------------|------------------------|--------------------------------|------------------|
| low (35°C) | A12/W24 | 11 | 11,20 | 7,26 |
| | A7/W25 | 24 | 9,43 | 6,04 |
| | A2/W27 | 37 | 10,31 | 5,43 |
| | A-7/W30 | 61 | 16,79 | 3,90 |
| | A-15/W32 | 82 | 23,55 | 2,51 |
| | A-17/W33 | 87 | 21,53 | 2,19 |
| | A-22/W35 | 100 | 18,53 | 1,62 |
| medium (45°C) | A12/W26 | 11 | 10,94 | 6,97 |
| | A7/W30 | 24 | 8,97 | 5,59 |
| | A2/W33 | 37 | 10,38 | 4,79 |
| | A-7/W38 | 61 | 16,73 | 3,06 |
| | A-15/W41 | 82 | 22,41 | 1,68 |
| | A-22/W45 | 100 | 15,49 | 1,17 |
| high (55°C) | A12/W28 | 11 | 10,54 | 6,55 |
| | A7/W32 | 24 | 8,74 | 5,33 |
| | A2/W37 | 37 | 10,21 | 4,30 |
| | A-7/W44 | 61 | 16,96 | 2,55 |
| | A-15/W49 | 82 | 19,80 | 1,25 |
| | A-22/W55 | 100 | 12,76 | 1,09 |

Partial loads and COPs in cooling mode for ceiling cooling applications

| Operating point | Partial load ratio [%] | Cooling capacity P_{dC} [kW] | EER _d |
|-----------------|------------------------|--------------------------------|------------------|
| A20/W18 | 21 | 8,87 | 7,91 |
| A25/W18 | 47 | 9,48 | 7,00 |
| A30/W18 | 74 | 14,93 | 6,04 |
| A35/W18 | 100 | 20,17 | 4,21 |

Partial loads and COPs in cooling mode for cooling mode convector

| Operating point | Partial load ratio [%] | Cooling capacity P_{dC} [kW] | EER _d |
|-----------------|------------------------|--------------------------------|------------------|
| A20/W11,5 | 21 | 8,83 | 6,37 |
| A25/W10 | 47 | 9,44 | 7,07 |
| A30/W8,5 | 74 | 14,86 | 5,91 |
| A35/W7 | 100 | 20,08 | 4,02 |

* Cooling temperatures below 15°C only after consultation with Heliotherm.



Performance Data Sensor Solid Split 40

acc. EN14825 (calculated values; errors reserved)
Operating limit temperature TOL = -25 °C

Bivalent temperature for climate zone "medium"

| H. Outlet temperature level | T _{bivalent} [°C] |
|-----------------------------|----------------------------|
| high (55°C) | -10 |

Bivalent temperature for climate zone "colder"

| H. Outlet temperature level | T _{bivalent} [°C] |
|-----------------------------|----------------------------|
| low (35°C) | -17 |
| medium (45°C) | -15 |
| high (55°C) | -13 |

Full Load and Seasonal Performance Factor in Heating Mode

| Climate zone | H. Outlet temperature level | P _{desinh} [kW] | QHE [kWh] | SCOP | ηS [%] |
|---------------------|-----------------------------|--------------------------|-----------|------|--------|
| medium (Strasbourg) | low (35°C) | 40 | 11178 | 5,18 | 204 |
| | medium (45°C) | 40 | 12129 | 4,04 | 159 |
| | high (55°C) | 40 | 14203 | 4,05 | 158 |
| warmer (Athen) | low (35°C) | 45 | 10413 | 6,05 | 239 |
| | medium (45°C) | 45 | 12257 | 5,14 | 203 |
| | high (55°C) | 45 | 14651 | 4,30 | 169 |
| colder (Helsinki) | low (35°C) | 36 | 19444 | 4,32 | 170 |
| | medium (45°C) | 36 | 23140 | 3,63 | 142 |
| | high (55°C) | 36 | 28475 | 2,95 | 115 |

Full load in cooling mode for ceiling cooling applications
SPF in cooling mode for ceiling cooling applications

P_{desinh} = 30 kW
SEER = 6,15

Full load in cooling mode for convector fans
SPF in cooling mode for convector fans

P_{desinh} = 30 kW
SEER = 5,38

Power consumption in operating modes other than the operating state

| | |
|--|--------|
| Power Off P _{OFF} | 14,1 W |
| Temperature Controller Off P _{TO} | 14,2 W |
| Standbymode P _{SB} | 14,1 W |



Performance Data Sensor Solid Split 40 (Continued)

Acc. to EN14511

| Measuring point | | A-7W35 | A2W35 | A7W35 | A7W55 (8K) |
|-------------------------------|----|--------|-------|-------|------------|
| Heating capacity ¹ | kW | 19,12 | 19,38 | 19,51 | 17,77 |
| COP | | 3,45 | 4,66 | 5,46 | 3,18 |

¹Heating output stated at 50% part load ratio

Acc. to EN14825

Partial loads and COPs for the reference heating season "medium" (Strasbourg)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity _{P_d} [kW] | COP _d |
|-------------------|-----------------|------------------------|--|------------------|
| low (35°C) | A12/W24 | 15 | 14,13 | 8,08 |
| | A7/W27 | 35 | 14,45 | 6,65 |
| | A2/W30 | 54 | 20,86 | 5,29 |
| | A-7/W34 | 88 | 34,64 | 3,06 |
| | A-10/W35 | 100 | 39,70 | 2,55 |
| medium (45°C) | A12/W28 | 15 | 14,17 | 6,33 |
| | A7/W33 | 35 | 13,70 | 4,69 |
| | A2/W37 | 54 | 20,63 | 4,16 |
| | A-7/W43 | 88 | 34,04 | 2,51 |
| | A-10/W45 | 100 | 39,10 | 1,92 |
| high (55°C) | A12/W30 | 15 | 14,20 | 6,38 |
| | A7/W36 | 35 | 13,31 | 5,21 |
| | A2/W42 | 54 | 20,50 | 4,00 |
| | A-7/W52 | 88 | 33,37 | 2,21 |
| | A-10/W55 | 100 | 37,82 | 1,80 |

Partial loads and COPs for the reference heating season "warmer" (Athens)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity _{P_d} [kW] | COP _d |
|-------------------|-----------------|------------------------|--|------------------|
| low (35°C) | A12/W26 | 29 | 18,82 | 6,81 |
| | A7/W31 | 64 | 28,87 | 5,57 |
| | A2/W35 | 100 | 43,61 | 4,39 |
| medium (45°C) | A12/W31 | 29 | 17,94 | 6,18 |
| | A7/W39 | 64 | 28,65 | 4,55 |
| | A2/W45 | 100 | 44,70 | 3,12 |
| high (55°C) | A12/W34 | 29 | 17,28 | 5,71 |
| | A7/W46 | 64 | 26,27 | 3,61 |
| | A2/W55 | 100 | 45,27 | 2,01 |



Performance Data Sensor Solid Split 40 (Continued)

Partial loads and COPs for the reference heating season, "colder" (Helsinki)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity P_{dh} [kW] | COP _d |
|-------------------|-----------------|------------------------|--------------------------------|------------------|
| low (35°C) | A12/W24 | 11 | 18,38 | 6,50 |
| | A7/W25 | 24 | 15,80 | 5,62 |
| | A2/W27 | 37 | 13,63 | 4,95 |
| | A-7/W30 | 61 | 24,31 | 3,53 |
| | A-15/W32 | 82 | 31,83 | 2,50 |
| | A-17/W33 | 87 | 31,50 | 2,29 |
| | A-22/W35 | 100 | 24,58 | 1,70 |
| medium (45°C) | A12/W26 | 11 | 17,94 | 6,18 |
| | A7/W30 | 24 | 15,04 | 5,11 |
| | A2/W33 | 37 | 14,69 | 4,33 |
| | A-7/W38 | 61 | 26,04 | 2,91 |
| | A-15/W41 | 82 | 30,00 | 1,84 |
| | A-22/W45 | 100 | 19,96 | 1,17 |
| high (55°C) | A12/W28 | 11 | 17,72 | 6,45 |
| | A7/W32 | 24 | 14,66 | 5,19 |
| | A2/W37 | 37 | 14,57 | 4,17 |
| | A-7/W44 | 61 | 24,90 | 2,29 |
| | A-13/W48 | 76 | 29,15 | 1,54 |
| | A-15/W49 | 82 | 25,57 | 1,33 |
| | A-22/W55 | 100 | 15,81 | 1,05 |

Partial loads and COPs in cooling mode for ceiling cooling applications

| Operating point | Partial load ratio [%] | Cooling capacity P_{dc} [kW] | EER _d |
|-----------------|------------------------|--------------------------------|------------------|
| A20/W18 | 21 | 13,33 | 7,49 |
| A25/W18 | 47 | 14,24 | 6,69 |
| A30/W18 | 74 | 22,41 | 5,35 |
| A35/W18 | 100 | 30,29 | 4,18 |

Partial loads and COPs in cooling mode for cooling mode for convector fans

| Operating point | Partial load ratio [%] | Cooling capacity P_{dc} [kW] | EER _d |
|-----------------|------------------------|--------------------------------|------------------|
| A20/W11,5 | 21 | 13,23 | 6,35 |
| A25/W10 | 47 | 14,13 | 5,63 |
| A30/W8,5 | 74 | 22,24 | 4,86 |
| A35/W7 | 100 | 30,06 | 3,99 |

* Cooling temperatures below 15°C only after consultation with Heliotherm.



Performance Data Sensor Solid Split 55

acc. EN14825 (calculated values; errors reserved)
Operating limit temperature TOL = -25°C

Bivalent temperature for climate zone "medium"

| H. Outlet temperature level | T _{bivalent} [°C] |
|-----------------------------|----------------------------|
| high (55°C) | -10 |

Bivalent temperature for climate zone "colder"

| H. Outlet temperature level | T _{bivalent} [°C] |
|-----------------------------|----------------------------|
| low (35°C) | -17 |
| medium (45°C) | -15 |
| high (55°C) | -15 |

Full Load and Seasonal Performance Factor in Heating Mode

| Climate zone | H. Outlet temperature level | P _{desinh} [kW] | QHE [kWh] | SCOP | ηS [%] |
|---------------------|-----------------------------|--------------------------|-----------|------|--------|
| medium (Strasbourg) | low (35°C) | 48 | 12233 | 5,07 | 200 |
| | medium (45°C) | 48 | 15328 | 4,11 | 161 |
| | high (55°C) | 48 | 18261 | 3,83 | 150 |
| wärmer (Athen) | low (35°C) | 55 | 12184 | 6,32 | 250 |
| | medium (45°C) | 55 | 14447 | 5,33 | 210 |
| | high (55°C) | 55 | 15660 | 4,47 | 176 |
| kälter (Helsinki) | low (35°C) | 45 | 21236 | 4,45 | 175 |
| | medium (45°C) | 45 | 26250 | 3,60 | 141 |
| | high (55°C) | 45 | 30782 | 3,07 | 120 |

Full load in cooling mode for ceiling cooling applications
SPF in cooling mode for ceiling cooling applications

P_{desinh} = 40 kW
SEER = 6,50

Full load in cooling mode for convector fans
SPF in cooling mode for convector fans

P_{desinh} = 40 kW
SEER = 6,14

Power consumption in operating modes other than the operating state

| | |
|--|--------|
| Power Off P _{OFF} | 14,1 W |
| Temperature Controller Off P _{TO} | 14,2 W |
| Standbymode P _{SB} | 14,1 W |



Performance Data Sensor Solid Split 55 (Continued)

Acc. to EN14511

| Measuring point | | A-7W35 | A2W35 | A7W35 | A7W55 (8K) |
|-------------------------------|----|--------|-------|-------|------------|
| Heating capacity ¹ | kW | 23,59 | 23,78 | 23,43 | 20,10 |
| COP | | 3,35 | 4,56 | 5,36 | 3,08 |

¹Heating output stated at 50% part load ratio

Acc. to EN14825

Partial loads and COPs for the reference heating season "medium" (Strasbourg)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity _{P_dh} [kW] | COP _d |
|-------------------|-----------------|------------------------|---|------------------|
| low (35°C) | A12/W24 | 15 | 17,34 | 7,98 |
| | A7/W27 | 35 | 17,57 | 6,45 |
| | A2/W30 | 54 | 27,38 | 5,19 |
| | A-7/W34 | 88 | 43,21 | 2,96 |
| | A-10/W35 | 100 | 48,90 | 2,45 |
| medium (45°C) | A12/W28 | 15 | 17,23 | 6,55 |
| | A7/W33 | 35 | 16,97 | 4,87 |
| | A2/W37 | 54 | 26,78 | 4,30 |
| | A-7/W43 | 88 | 42,61 | 2,43 |
| | A-10/W45 | 100 | 47,00 | 1,65 |
| high (55°C) | A12/W30 | 15 | 17,13 | 6,28 |
| | A7/W36 | 35 | 16,14 | 5,11 |
| | A2/W42 | 54 | 24,78 | 3,90 |
| | A-7/W52 | 88 | 40,51 | 2,11 |
| | A-10/W55 | 100 | 44,30 | 1,70 |

Partial loads and COPs for the reference heating season "warmer" (Athens)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity _{P_dh} [kW] | COP _d |
|-------------------|-----------------|------------------------|---|------------------|
| low (35°C) | A12/W26 | 29 | 18,92 | 6,94 |
| | A7/W31 | 64 | 35,34 | 6,07 |
| | A2/W35 | 100 | 55,48 | 4,23 |
| medium (45°C) | A12/W31 | 29 | 18,34 | 6,21 |
| | A7/W39 | 64 | 35,14 | 4,95 |
| | A2/W45 | 100 | 54,96 | 2,98 |
| high (55°C) | A12/W34 | 29 | 16,54 | 5,71 |
| | A7/W46 | 64 | 32,04 | 3,90 |
| | A2/W55 | 100 | 50,96 | 2,04 |



Performance Data Sensor Solid Split 55 (Continued)

Partial loads and COPs for the reference heating season "colder" (Helsinki)

| Temperature level | Operating point | Partial load ratio [%] | Heating capacity P_{dh} [kW] | COP _d |
|-------------------|-----------------|------------------------|--------------------------------|------------------|
| low (35°C) | A12/W24 | 11 | 17,40 | 7,26 |
| | A7/W25 | 24 | 15,86 | 6,04 |
| | A2/W27 | 37 | 18,62 | 5,43 |
| | A-7/W30 | 61 | 27,58 | 3,90 |
| | A-15/W32 | 82 | 36,10 | 2,51 |
| | A-17/W33 | 89 | 39,10 | 2,19 |
| | A-22/W35 | 100 | 35,06 | 1,62 |
| medium (45°C) | A12/W26 | 11 | 17,88 | 6,97 |
| | A7/W30 | 24 | 15,94 | 5,59 |
| | A2/W33 | 37 | 18,76 | 4,79 |
| | A-7/W38 | 61 | 27,46 | 3,06 |
| | A-15/W41 | 82 | 36,82 | 1,68 |
| | A-22/W45 | 100 | 30,98 | 1,17 |
| high (55°C) | A12/W28 | 11 | 18,08 | 6,55 |
| | A7/W32 | 24 | 15,48 | 5,33 |
| | A2/W37 | 37 | 18,42 | 4,30 |
| | A-7/W44 | 61 | 27,92 | 2,55 |
| | A-15/W49 | 82 | 36,60 | 1,25 |
| | A-22/W55 | 100 | 25,52 | 1,09 |

Partial loads and COPs in cooling mode for ceiling cooling applications

| Operating point | Partial load ratio [%] | Cooling capacity P_{dc} [kW] | EER _d |
|-----------------|------------------------|--------------------------------|------------------|
| A20/W18 | 21 | 17,68 | 7,91 |
| A25/W18 | 47 | 18,88 | 7,00 |
| A30/W18 | 74 | 29,73 | 6,04 |
| A35/W18 | 100 | 40,18 | 4,21 |

Partial loads and COPs in cooling mode for cooling mode for convector fans

| Operating point | Partial load ratio [%] | Cooling capacity P_{dc} [kW] | EER _d |
|-----------------|------------------------|--------------------------------|------------------|
| A20/W11,5 | 21 | 17,64 | 6,37 |
| A25/W10 | 47 | 18,85 | 6,19 |
| A30/W8,5 | 74 | 29,67 | 5,91 |
| A35/W7 | 100 | 40,10 | 4,02 |

* Cooling temperatures below 15°C only after consultation with Heliotherm.

