



YCSA 50 to 100

- 2 capacity steps
- LWT & RWT Control
- Hydro Pack standard
- Buffer Tank
- Plate heat exchanger
- FSC standard (low ambient operation -10°C)
- Condenser protection grille



YCSA 120 to 150

- Same features as YCSA 50 to 100
- 4 capacity steps
- High efficiency at full and partial load
- Hydro Pack standard
- LWT & RWT control
- Standard low ambient operation (-18°C)
- Reduced noise levels
- 1/4 turn lock for easy access

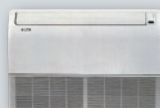
Air cooled chiller / Air to water heat pump

YCSA 50 to 150

A complete range from 49 kW up to 156 kW



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The power in cooling



YCSA 50 to 150

49 to 156 kW

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The power in cooling



T Three phases supply P Hydro Pack H Heat pump

Technical features

| | | | YCSA / YCSA-H | | | | | | |
|--|---|------------------------|-------------------------------------|--------------------|-----------|--------------------|--------------------|-----------------------------|--------------------|
| | | | 50 T-TP | 60 T-TP | 80 T-TP | 100 T-TP | 120 T-TP | 150 T-TP | |
| Performance | Cooling capacity cooling only units (1) | kW | 49.2 | 61.2 | 78.6 | 96 | 119 | 156 | |
| | Total Input Power (1) | kW | 17.9 | 23.8 | 27.4 | 38.4 | 43 | 50 | |
| | Cooling capacity heat pump units (1) | kW | 45.4 | 65.3 | 74.3 | 90 | 114 | 145 | |
| | Heating capacity heat pump units (1) | kW | 54.4 | 62.5 | 81.2 | 101 | 119.6 | 150 | |
| | Total Input Power cooling/heating mode (1) | kW | 18.7 / 19.7 | 22.2 / 21.9 | 28 / 29.6 | 37.7 / 36.5 | 43.3 / 39.6 | 50 | |
| | Capacity steps | % | 0-50-100% | | | | | 0-25-50-75-100% | |
| | Sound power level | dB(A) | 84 | 85 | 88 | 89 | 86 | 88 | |
| | Sound pressure level at 10 m | dB(A) | 56 | 57 | 60 | 61 | 58 | 60 | |
| | Sound power level Low Noise version | dB(A) | 78 | 79 | 83 | 83 | 82 | 84 | |
| Sound pressure level Low Noise version at 10 m | dB(A) | 50 | 51 | 55 | 55 | 54 | 56 | | |
| Compressor | Type | | Hermetic Scroll (R407C) | | | | | Hermetic Scroll (R410A) | |
| | Quantity | | 2 | | | | | 4 | |
| Air side heat exchanger | Fans quantity | | 2 | | 3 | | | 4 | |
| | Working Ambient temp. cooling / heating mode (4) | | (-18°C) -10°C ~ 46°C / -10°C ~ 20°C | | | | | -18°C ~ 46°C / -10°C ~ 20°C | |
| Water side heat exchanger | Type | | Single Plate Heat Exchanger | | | | | Dual Plate Heat Exchanger | |
| | Unit water volume (2) | Litres | 179 | 181 | 274 | 278 | 170 | 179 | |
| | Pump Type | | Multistage horizontal pumps | | | | | | |
| | Available pressure (1) (2) | kPa | 190 | 240 | 165 | 241 | 202 | 185 | |
| | Pressure drop (1) (3) | kPa | 30 | 42 | 59 | 33 | 32 | 29 | |
| | Working range water leaving temperature cooling/heating (5) | | (-5°C) 6°C ~ 15°C / 30°C ~ 50°C | | | | | | |
| | Water connections (2) | inch | 2" | | | | 2 1/2" | | |
| | Dimensions & Weight | Height / Width / Depth | mm | 1398 / 1004 / 2103 | | 1400 / 1108 / 2943 | 1582 / 1140 / 3336 | 2190 / 1101 / 3416 | 2263 / 1101 / 3770 |
| Weight without pack / pack cooling only | | kg | 568 / 624 | 650 / 706 | 798 / 870 | 964 / 1 030 | 1 190 / 1 250 | 1 585 / 1 645 | |
| Weight without pack / pack heat pumps | | kg | 580 / 636 | 664 / 720 | 824 / 890 | 1 000 / 1 065 | 1 220 / 1 280 | 1 615 / 1 675 | |
| Electrical features | Voltage / Phases / Frequency | V/ph/hz | 400 / 3 / 50 | | | | | | |
| | Running current (max) (2) | A | 46.4 | 57.7 | 71 | 91.3 | 103 | 129 | |

(1) net values at Eurovent nominal conditions (2) version P with hydro kit with filter (3) version without hydro kit (4) -18°C with LAK option (5) below 6°C with glycol
Nominal conditions: Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature
Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature

Compatibility table / Codes

| Model | YCSA 50 TP | YCSA 60 TP | YCSA 80 TP | YCSA 100 TP | YCSA 120 TP | YCSA 150 TP |
|-----------------------------------|------------|------------|------------|-------------|-------------|-------------|
| Cooling only unit (Pack included) | 668524682 | 668526082 | 668528082 | 668521082 | 668551152 | 668551502 |
| Heat pump unit (Pack included) | 668624682 | 668626082 | 668628082 | 668621082 | 668651152 | 668651502 |

Options (Factory fitted)

| Model | YCSA 50 T | YCSA 60 T | YCSA 80 T | YCSA 100 T | YCSA 120 T | YCSA 150 T |
|--|-----------|-----------|-----------|------------|------------|------------|
| Cooling only unit (without Pack) | 668524680 | 668526080 | 668528080 | 668521080 | 668551150 | 668551500 |
| Heat pump unit (without Pack) | 668624680 | 668626080 | 668628080 | 668621080 | 668651150 | 668651500 |
| Anti-corrosion coated condenser fins c/o | 611084646 | 611086060 | 611088080 | 611081010 | 611081210 | 611081510 |
| Anti-corrosion coated condenser fins h/p | 611085050 | 611086061 | 611088081 | 611081011 | 611081211 | 611081511 |
| Copper/copper condenser c/o | 611064646 | 611066060 | 611068080 | 611061010 | 611061210 | 611061510 |
| Copper/copper condenser h/p | 611054646 | 611056060 | 611058080 | 611051010 | 611051210 | 611051510 |
| LAK -18°C for cooling only unit | 613112081 | | | | STANDARD | |
| Low Noise version | 613996086 | | 613998081 | 613991084 | 613991285 | 613991584 |
| Dual pumps | NA | NA | 613990881 | 613991085 | 613991286 | 613991585 |

Accessories (Supplied loose)

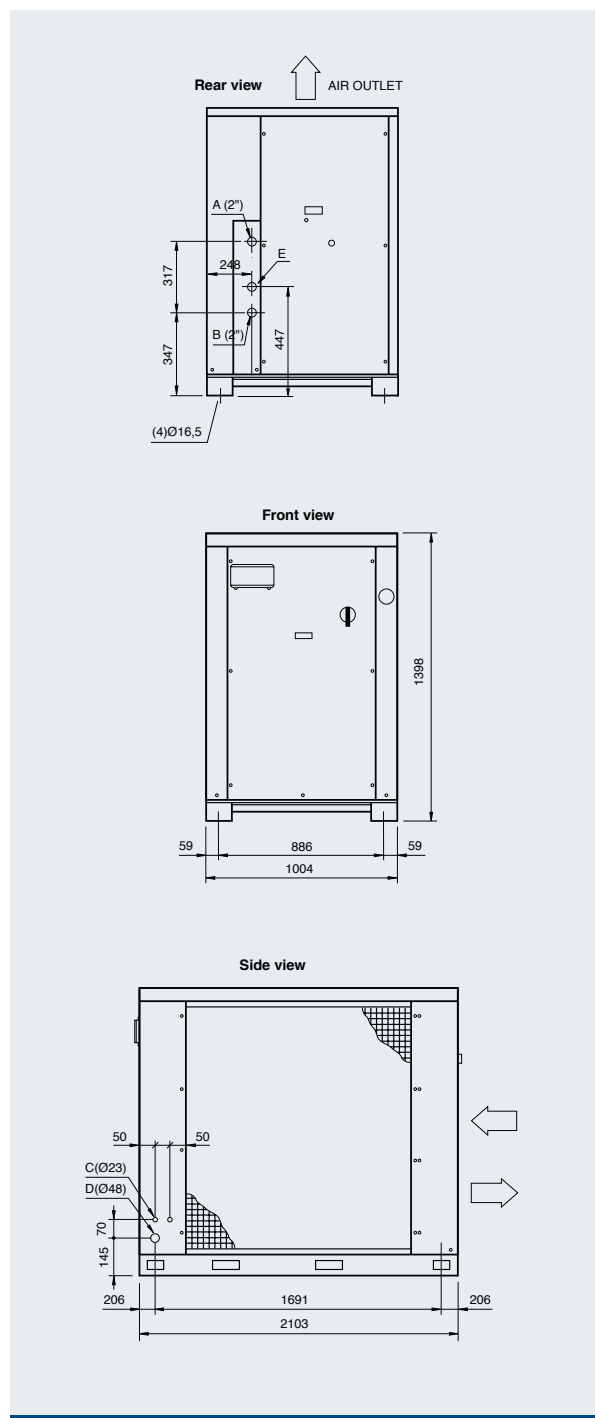
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|---|-----------|-----------|-----------|
| Accessories (Supplied loose) | | | |
| AVM mounting | 613026080 | 613028180 | 613021580 |
| Mechanical flow switch | 611992021 | | |
| Water Filter * | 611300170 | 611300190 | |
| Remote control | 613802011 | | |
| Remote terminal | 613802231 | - | |
| Cable for remote connection of the terminal | - | 613802241 | |
| B.M.S. Communication | 613802041 | 613802051 | |

* included with unit version "P" only for unit without pack. Filter size: 2" for YCSA 50-60-80 and 2 1/2" for YCSA 100-120-150.

NA= Not available

Dimensions, hydraulic connections and space requirements

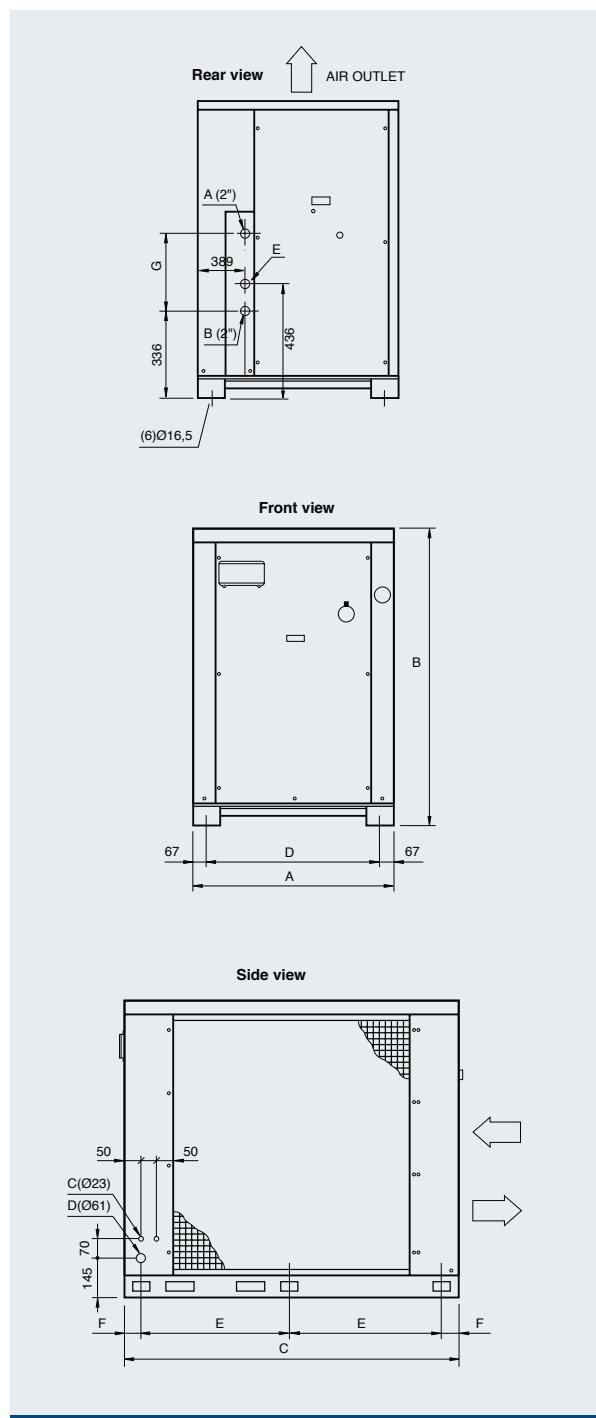
YCSA/YCSA-H 50 and 60 T-TP



All dimensions in mm. Drawings not a scale.

A- Water intake Ø 2" Gas F.
B- Water outlet Ø 2" Gas F.
C- Auxiliary lines
D- Electrical power supply
E- Water refilling Ø 3/8" Gas F.

YCSA/YCSA-H 80 and 100 T-TP



All dimensions in mm. Drawings not a scale.

| | A | B | C | D | E | F | G |
|-----------------|-------|-------|-------|-------|-------|-----|-----|
| YCSA 80 | 1 108 | 1 400 | 2 943 | 970 | 1 265 | 207 | 317 |
| YCSA 100 | 1 140 | 1 582 | 3 336 | 1 002 | 1 318 | 350 | 327 |

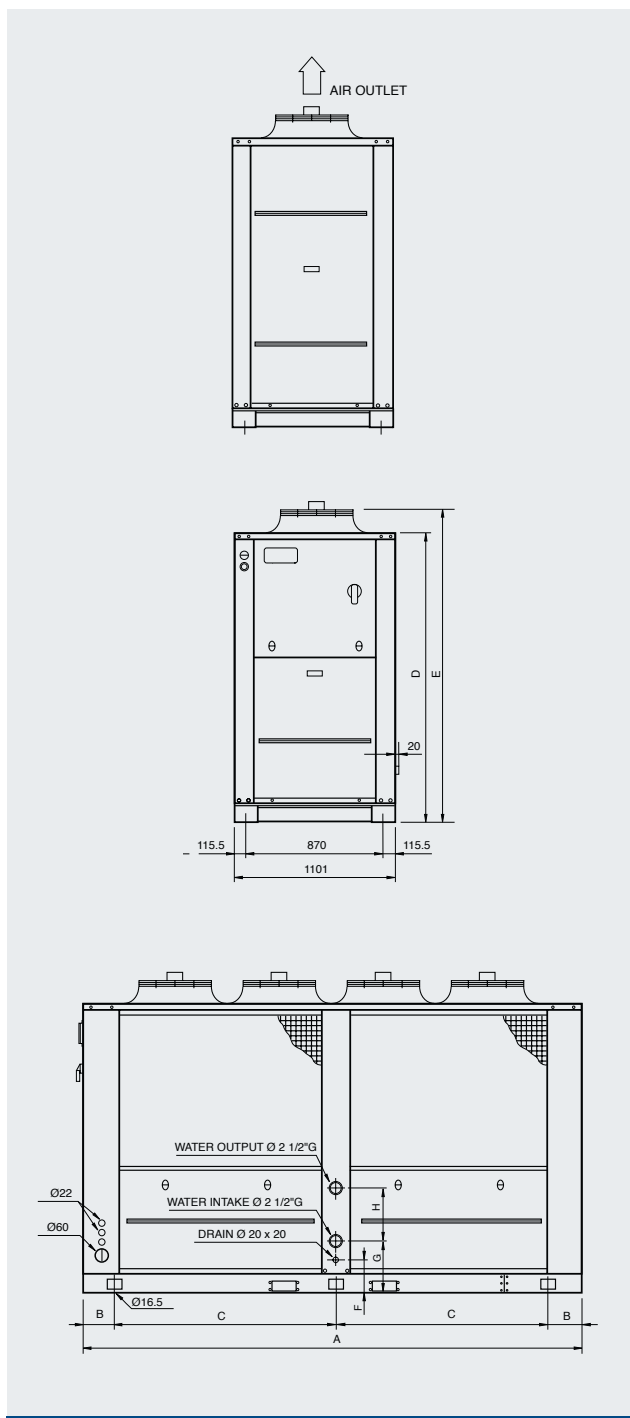
A- Water intake Ø 2" Gas F.
B- Water outlet Ø 2" Gas F.
C- Auxiliary lines
D- Electrical power supply
E- Water refilling Ø 3/8" Gas F.

YCSA 50 to 150

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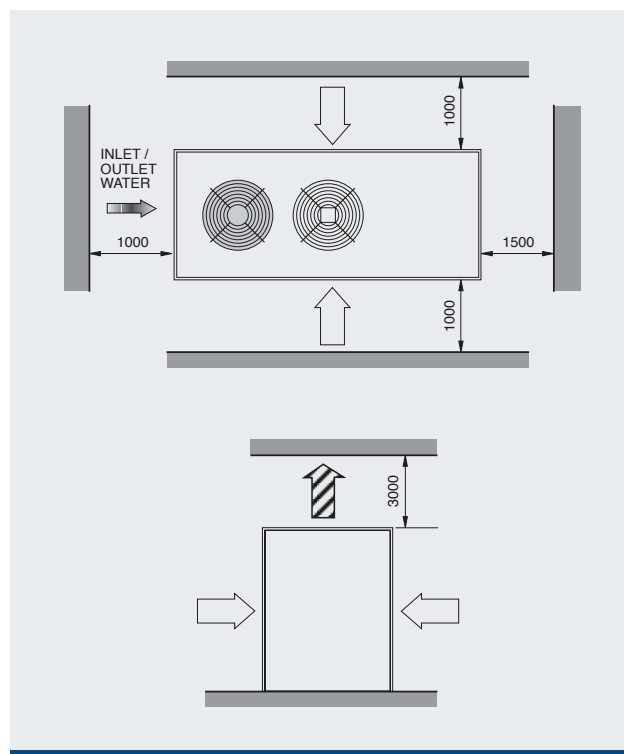
YCSA/YCSA-H 120 and 150 T-TP



All dimensions in mm. Drawings not a scale.

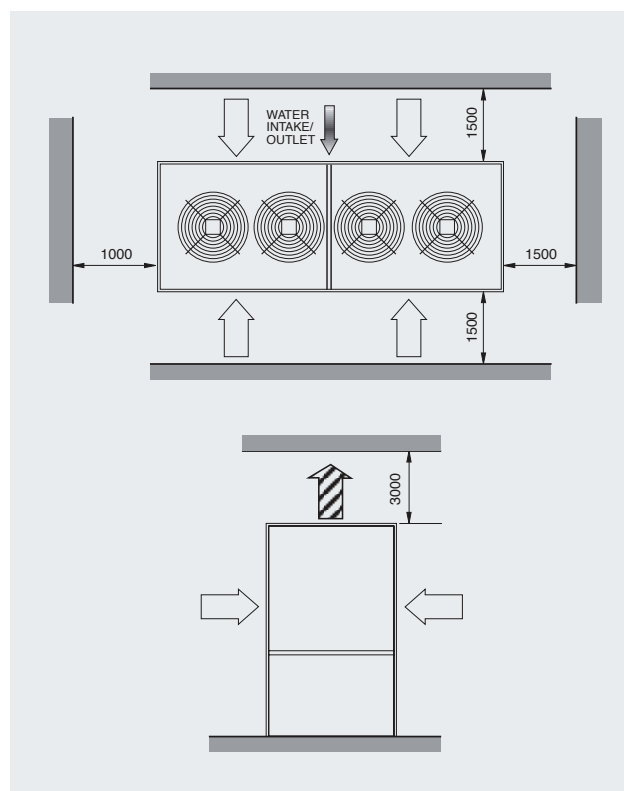
| | A | B | C | D | E | F | G | H |
|-----------------|-------|-----|-------|-------|-------|-----|-----|-----|
| YCSA 120 | 3 416 | 183 | 1 525 | 1 942 | 2 190 | 199 | 289 | 380 |
| YCSA 150 | 3 770 | 255 | 1 630 | 1 993 | 2 263 | 145 | 211 | 458 |

Model YCSA/H 50/60/80/100



All dimensions in mm. Drawings not a scale.

Model YCSA/YCSA-H 120 and 150



All dimensions in mm. Drawings not a scale.