WTG-Quantor brands

WTG-QUANTOR GMBH





Water Re-Cooler

QUANTOR PLUS













LIQUID CHILLERS/HEAT PUMPS

This new **QUANTOR PLUS** series is a further development of the Quantor series, which is operated with the environmentally friendly refrigerant R32 with low GWP (Global Warming Potential).

The newly developed copper-aluminium condenser significantly reduces the refrigerant charge of the chillers. Despite, the **Quantor PLUS** units with R32 achieve higher efficiency and higher cooling capacity than comparable systems with R410a under the same ambient conditions. In addition to that, an electronic expansion valve is now installed in the refrigeration circuit, improving efficiency also in partial load. This combination of a lower refrigerant load in general and the use of the highly efficient refrigerant gas R32 leads to a remarkable reduction of the negative impact on the environment.

The units of this new range are available with capacities from 63^1 kW to 244^1 kW. The units are designed only for an installation outdoors, suitable for operation at ambient temperatures from -10°C to +46°C. The rated cold-water temperature is between -10°C and +8°C, (warm water up to +60°C).

The **Quantor PLUS** units are therefore the solution for wine, beer and beverage producers who need cooling and heating (option) for temperature control and who value a safe, very efficient, environmentally friendly and future-oriented solution.

APPLICATIONS

The **QUANTOR PLUS** units cover the complete temperature range in all process steps and applications in beer-brewing, winemaking, and production of fermenting and/or cooling drinks:

- · Cold maceration
- · Fermentation control
- · Beer-wort cooling
- Cooling for carbonation, in-line cooling solutions available
- Wine-stabilization (Glycol-water temperature down to -10°C possible)
- Warming-up cold-stored wine before bottling, in-line heating of wine solutions available
- Room temperature control by cooling or heating the air (with additional fan-equipment, see additional product range).

CHARACTERISTICS/ADVANTAGES

One of the big advantages of the **QUANTOR PLUS** range is the large variety of models, sizes and capacities that it offers to the user's choice:

- In total there are 18 sizes / units, with cooling capacities from 63 kW up to 244 kW¹
- All models are available as standard units (cooling only) or reversible units (cooling and heating / heat-pump)
- Q+672 Q+2442 (63 244 kW)¹ equipped with one cooling circuit
- Q+1264 Q+2384 (126 238 kW)¹ equipped with two independent cooling circuits for increased process safety
- Units with higher cooling capacities, with two or more independent cooling circuits, are also available with new, environmentally friendly cooling gases. Please contact us for more information.

In addition to that, the **QUANTOR PLUS** range is characterized by its modularity and thus by its individuality: To complete the extensive standard equipment we offer many features to the user's choice to perfectly adapt each unit to the particular application and also to the individual requirements at the customer's location.

WATER TEMPERATURE RANGE

from -10°C to +8°C (warm water up to +60°C)

AMBIENT TEMPERATURE RANGE

from -10°C to +46°C

SUITABLE FOR INDUSTRIES











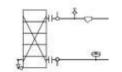
STANDARD FEATURES

- · Stable construction from galvanised sheet metal with premium Polyester powder-coating with anti vibration mounts
- · Hermetic Scroll compressors of the latest models
- · Stainless steel pipes (water-side)
- · Optimized condenser construction for efficient heat-transfer
- Gradual activation of the compressors allows higher efficiency by partial-load operation, and significantly positive values of the European seasonal energy efficiency ratio EER
- High efficiency (EER up to 4,1 and COP up to 3,42)^{1,2} and low power consumption
- · Latest generation micro-processor control with supervision of all the relevant parameters
- · Compressor encapsulated in noise-reduction compartment
- · Stainless steel evaporator with integrated frost-protection heating element
- · Low noise level
- Environmentally friendly refrigerant R32
- Fan speed control
- · Victaulic connections included with the units.

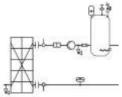
AVAILABLE OPTIONS

- · Alarge variety of hydraulic options is available:
 - · Integrated Hydraulic module
 - Pump (high or low-pressure pump), filtre, expansion vessel and flow switch
 - · Integrated Hydronic Basic module
 - Pump (high or low-pressure pump), stainless steel buffer tank with heating bar (0,3kW), expansion vessel and flow switch
- Integrated Hydronic PLUS module
 - Pump, stainless steel buffer tank with heating bar (0,3kW) as hydraulic flow-adaptation, expansion vessel and flow switch
- · Coils protection grills
- · Epoxy coating on the condenser
- · Fan-motors with frequency converter
- Fans with stronger air-thrust (for cooling only units)
- · Partial heat recovery (desuperheater)
- Total heat recovery
- · Remote control
- By models from Q1132, additional noise-reduction is possible
- · Soft-start for compressors
- Power Factor Correction
- · Second pumps and / or frequency controlled pumps
- Further options are available, as well as additional models: units with screw compressors, units with Shell-and-Tube evaporator, etc. Please contact us for more information.

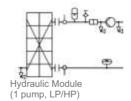
HYDRAULIC OPTIONS

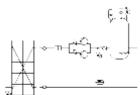


Base version (without additional features)

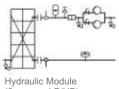


Hydronic Basic module (1 pump, LP/HP)





Hydronic Basic module (2 pumps, LP/HP)



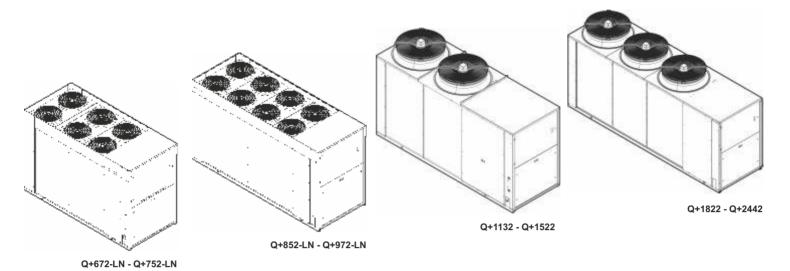
Hydraulic Module (2 pumps, LP/HP)



Hydronic PLUS module

MODELS

Q+672 - Q+2442 - Units with 1 cooling circuit



TECHNICAL DATA

Q+672 - Q+2442 - Units with 1 cooling circuit

All QUANTOR PLUS units are equipped with:

- Scroll Compressor Electric connection 400V/3PhN/50Hz varying voltage levels on request Axial fan

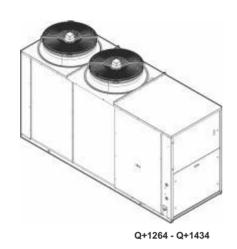
QUANTOR PLUS		Q+672	Q+752	Q+852	Q+972	Q+1132	Q+1242	Q+1412	Q+1522	Q+1822	Q+2032	Q+2262	Q+2442
Cooling capacity 1	kW	63,1	69,2	80,2	94,1	112,5	124,4	138,7	152,3	179,4	198,9	223,8	243,9
Input power 1	kW	16,4	18,9	20,5	24,3	27,5	30,9	35,5	40,3	44,8	50,0	58,6	67,4
EER1	W/W	3,84	3,68	3,91	3,87	4,1	4,03	3,91	3,77	4,0	3,98	3,82	3,62
SEER	W/W	4,40	4,32	4,37	4,33	4,26	4,15	4,29	4,21	4,36	4,21	4,23	4,27
Water flow rate 1	l/h	10.870	12.010	13.800	16.590	19.380	21.430	23.900	26.210	30.880	34.240	38.530	42.000
QUANTOR PLUS-R		Q+672-R	Q+752-R	Q+852-R	Q+972-R	Q+1132-R	Q+1242-R	Q+1412-R	Q+1522-R	Q+1822-R	Q+2032-R	Q+2262-R	Q+2442-R
Cooling capacity 1	kW	59,5	65,9	76,4	89,0	103,2	114,3	130,6	143,0	170,8	189,8	213,7	234,4
Input power 1	kW	16,9	19,6	21,5	25,2	29,0	32,5	35,2	40,3	43,9	50,1	58,1	66,3
Heating capacity ²	kW	58,8	65,4	76,6	88,8	103,0	113,7	126,6	138,9	163,3	181,1	200,6	219,9
Input power ²	kW	17,2	19,7	22,5	26,5	31,0	33,8	37,4	41,5	49,1	55,3	60,9	67,5
EER1	W/W	3,51	3,36	3,55	3,53	3,56	3,52	3,71	3,55	3,89	3,79	3,68	3,53
COP ²	w/w	3,42	3,32	3,4	3,35	3,32	3,36	3,37	3,35	3,3	3,27	3,29	3,26
Water flow rate 1	l/h	10.240	11.350	13.160	15.330	17.770	19.680	22.490	24.620	29.390	32.670	36.790	40.350
Compressors	n°	2	2	2	2	2	2	2	2	2	2	2	2
Circuits	n°	1	1	1	1	1	1	1	1	1	1	1	1
Fans	n°	6	6	8	8	2	2	2	2	3	3	3	3
Sound power 1,3	dB(A)	73,6	74,1	74,9	75,1	87,2	87,5	87,7	87,9	89,4	89,5	90	90,1
Hydraulic connections	Ø	2"1/2	2"1/2	2"½	2"1⁄2	2"1⁄2	2"½	2"1/2	2"½	2"1/2	2"1/2	2"1/2	2"1/2
Height	mm	1.650	1.660	1.660	1.660	1.910	1.910	1.910	1.910	1.900	1.900	1.900	1.900
Width	mm	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Length	mm	2.820	3.320	3.320	3.320	3.570	3.570	3.570	3.570	4.370	4.370	4.370	4.370
Weight (when empty) ⁴	kg	907	1.005	1.024	1.075	1.088	1.111	1.166	1.167	1.411	1.573	1.596	1.608
Buffer tank capacity 5	1	300	300	300	300	400	400	400	400	400	400	400	400
	Cooling capacity ¹ Input power ¹ EER¹ SEER Water flow rate ¹ QUANTOR PLUS-R Cooling capacity ¹ Input power ¹ Heating capacity ² Input power ² EER¹ COP² Water flow rate ¹ Compressors Circuits Fans Sound power ¹ Hydraulic connections Height Width Length Weight (when empty) ⁴	Cooling capacity 1 kW Input power 1 kW EER 1 W/W SEER W/W Water flow rate 1 I/h QUANTOR PLUS-R Cooling capacity 1 kW Input power 1 kW Input power 2 kW Input power 2 kW EER 1 W/W COP 2 W/W Water flow rate 1 I/h Compressors n° Circuits n° Fans n° Sound power 1,3 dB(A) Hydraulic connections Ø Height mm Width mm Length w/W KW EER 1 KW K	Cooling capacity ¹ kW 63,1 Input power ¹ kW 16,4 EER¹ W/W 3,84 SEER W/W 4,40 Water flow rate ¹ I/h 10.870 Q+672-R Cooling capacity ¹ kW 59,5 Input power ¹ kW 16,9 Heating capacity ² kW 58,8 Input power ² kW 17,2 EER¹ W/W 3,51 COP² W/W 3,42 Water flow rate ¹ I/h 10.240 Compressors n° 2 Circuits n° 1 Fans n° 6 Sound power ¹.³ dB(A) 73,6 Hydraulic connections Ø 2"½ Height mm 1.650 Width mm 2.820 Weight (when empty)⁴ kg 907	Cooling capacity ¹ kW 63,1 69,2 Input power ¹ kW 16,4 18,9 EER¹ W/W 3,84 3,68 SEER W/W 4,40 4,32 Water flow rate ¹ I/h 10.870 12.010 QUANTOR PLUS-R Cooling capacity ¹ kW 59,5 65,9 Input power ¹ kW 16,9 19,6 Heating capacity ² kW 58,8 65,4 Input power ² kW 17,2 19,7 EER¹ W/W 3,51 3,36 COP² W/W 3,42 3,32 Water flow rate ¹ I/h 10.240 11.350 Compressors n° 2 2 Circuits n° 1 1 Fans n° 6 6 Sound power ¹.³ dB(A) 73,6 74,1 Hydraulic connections Ø 2"½ 2"½ Height mm	Cooling capacity¹ kW 63,1 69,2 80,2 Input power¹ kW 16,4 18,9 20,5 EER¹ W/W 3,84 3,68 3,91 SEER W/W 4,40 4,32 4,37 Water flow rate¹ I/h 10.870 12.010 13.800 QUANTOR PLUS-R Q+672-R Q+752-R Q+852-R Cooling capacity¹ kW 59,5 65,9 76,4 Input power¹ kW 16,9 19,6 21,5 Heating capacity² kW 58,8 65,4 76,6 Input power² kW 17,2 19,7 22,5 EER¹ W/W 3,51 3,36 3,55 COP² W/W 3,42 3,32 3,4 Water flow rate¹ I/h 10.240 11.350 13.160 Compressors n° 2 2 2 Circuits n° 1 1 1 Fans	Cooling capacity ¹ kW 63,1 69,2 80,2 94,1 Input power ¹ kW 16,4 18,9 20,5 24,3 EER¹ W/W 3,84 3,68 3,91 3,87 SEER W/W 4,40 4,32 4,37 4,33 Water flow rate ¹ I/h 10.870 12.010 13.800 16.590 QuAntor PLUS-R Q+672-R Q+752-R Q+852-R Q+972-R Cooling capacity ¹ kW 59,5 65,9 76,4 89,0 Input power ¹ kW 16,9 19,6 21,5 25,2 Heating capacity ² kW 58,8 65,4 76,6 88,8 Input power ² kW 17,2 19,7 22,5 26,5 EER¹ W/W 3,51 3,36 3,55 3,53 COP² W/W 3,42 3,32 3,4 3,35 Water flow rate ¹ I/h 10.240 11.350 13.160 <td< td=""><td>Cooling capacity¹ kW 63,1 69,2 80,2 94,1 112,5 Input power¹ kW 16,4 18,9 20,5 24,3 27,5 EER¹ W/W 3,84 3,68 3,91 3,87 4,1 SEER W/W 4,40 4,32 4,37 4,33 4,26 Water flow rate¹ I/h 10.870 12.010 13.800 16.590 19.380 QUANTOR PLUS-R Q+672-R Q+752-R Q+852-R Q+972-R Q+1132-R Cooling capacity¹ kW 59,5 65,9 76,4 89,0 103,2 Input power¹ kW 16,9 19,6 21,5 25,2 29,0 Heating capacity² kW 58,8 65,4 76,6 88,8 103,0 Input power² kW 17,2 19,7 22,5 26,5 31,0 EER¹ W/W 3,41 3,36 3,55 3,53 3,56 COP² W/W</td><td> Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 </td><td> Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 Input power kW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 Water flow rate I/h 10.870 12.010 13.800 16.590 19.380 21.430 23.900 QUANTOR PLUS-R Q+672-R Q+752-R Q+852-R Q+972-R Q+1132-R Q+1242-R Q+1412-R Cooling capacity kW 59,5 65,9 76,4 89,0 103,2 114,3 130,6 Input power kW 16,9 19,6 21,5 25,2 29,0 32,5 35,2 Heating capacity kW 58,8 65,4 76,6 88,8 103,0 113,7 126,6 Input power kW 17,2 19,7 22,5 26,5 31,0 33,8 37,4 EER W/W 3,51 3,36 3,55 3,53 3,56 3,52 3,71 COP W/W 3,42 3,32 3,4 3,35 3,32 3,36 3,37 Water flow rate I/h 10.240 11.350 13.160 15.330 17.770 19.680 22.490 Compressors n° 2 2 2 2 2 2 Circuits n° 1 1 1 1 1 1 Fans n° 6 6 8 8 2 2 2 Sound power 3 dB(A) 73,6 74,1 74,9 75,1 87,2 87,5 87,7 Hydraulic connections Ø 2"/2 2"/2 2"/2 2"/2 2"/2 2"/2 Height mm 1.650 1.660 1.660 1.660 1.910 1.910 1.910 Width mm 1.100 1.100 1.100 1.100 1.100 1.100 Length mm 2.820 3,320 3,320 3,350 3,570 3,570 3,570 Weight (when empty) kg 907 1.005 1.024 1.075 1.088 1.111 1.166 </td><td> Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 152,3 Input power kW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 40,3 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 3,77 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 4,21 Water flow rate I/h 10.870 12.010 13.800 16.590 19.380 21.430 23.900 26.210 EER Cooling capacity kW 59,5 65,9 76,4 89,0 103,2 114,3 130,6 143,0 Input power kW 16,9 19,6 21,5 25,2 29,0 32,5 35,2 40,3 Heating capacity kW 58,8 65,4 76,6 88,8 103,0 113,7 126,6 138,9 Input power kW 17,2 19,7 22,5 26,5 31,0 33,8 37,4 41,5 EER W/W 3,42 3,32 3,4 3,35 3,56 3,52 3,71 3,55 COP W/W 3,42 3,32 3,4 3,35 3,32 3,36 3,37 3,35 Water flow rate I/h 10.240 11.350 13.160 15.330 17.770 19.680 22.490 24.620 Ear Compressors n° 2 2 2 2 2 2 2 2 2 </td><td> Cooling capacity KW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 152,3 179,4 Input power KW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 40,3 44,8 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 3,77 4,0 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 4,21 4,36 Water flow rate I/h 10.870 12.010 13.800 16.590 19.380 21.430 23.900 26.210 30.880 20.01</td><td> Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 152,3 179,4 198,9 1nput power kW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 40,3 44,8 50,0 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 3,77 4,0 3,98 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 4,21 4,36 4,21 Water flow rate Wh 10,870 12,010 13,800 16,590 19,380 21,430 23,900 26,210 30,880 34,240 24,000 24,</td><td> Cooling capacity</td></td<>	Cooling capacity¹ kW 63,1 69,2 80,2 94,1 112,5 Input power¹ kW 16,4 18,9 20,5 24,3 27,5 EER¹ W/W 3,84 3,68 3,91 3,87 4,1 SEER W/W 4,40 4,32 4,37 4,33 4,26 Water flow rate¹ I/h 10.870 12.010 13.800 16.590 19.380 QUANTOR PLUS-R Q+672-R Q+752-R Q+852-R Q+972-R Q+1132-R Cooling capacity¹ kW 59,5 65,9 76,4 89,0 103,2 Input power¹ kW 16,9 19,6 21,5 25,2 29,0 Heating capacity² kW 58,8 65,4 76,6 88,8 103,0 Input power² kW 17,2 19,7 22,5 26,5 31,0 EER¹ W/W 3,41 3,36 3,55 3,53 3,56 COP² W/W	Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4	Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 Input power kW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 Water flow rate I/h 10.870 12.010 13.800 16.590 19.380 21.430 23.900 QUANTOR PLUS-R Q+672-R Q+752-R Q+852-R Q+972-R Q+1132-R Q+1242-R Q+1412-R Cooling capacity kW 59,5 65,9 76,4 89,0 103,2 114,3 130,6 Input power kW 16,9 19,6 21,5 25,2 29,0 32,5 35,2 Heating capacity kW 58,8 65,4 76,6 88,8 103,0 113,7 126,6 Input power kW 17,2 19,7 22,5 26,5 31,0 33,8 37,4 EER W/W 3,51 3,36 3,55 3,53 3,56 3,52 3,71 COP W/W 3,42 3,32 3,4 3,35 3,32 3,36 3,37 Water flow rate I/h 10.240 11.350 13.160 15.330 17.770 19.680 22.490 Compressors n° 2 2 2 2 2 2 Circuits n° 1 1 1 1 1 1 Fans n° 6 6 8 8 2 2 2 Sound power 3 dB(A) 73,6 74,1 74,9 75,1 87,2 87,5 87,7 Hydraulic connections Ø 2"/2 2"/2 2"/2 2"/2 2"/2 2"/2 Height mm 1.650 1.660 1.660 1.660 1.910 1.910 1.910 Width mm 1.100 1.100 1.100 1.100 1.100 1.100 Length mm 2.820 3,320 3,320 3,350 3,570 3,570 3,570 Weight (when empty) kg 907 1.005 1.024 1.075 1.088 1.111 1.166	Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 152,3 Input power kW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 40,3 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 3,77 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 4,21 Water flow rate I/h 10.870 12.010 13.800 16.590 19.380 21.430 23.900 26.210 EER Cooling capacity kW 59,5 65,9 76,4 89,0 103,2 114,3 130,6 143,0 Input power kW 16,9 19,6 21,5 25,2 29,0 32,5 35,2 40,3 Heating capacity kW 58,8 65,4 76,6 88,8 103,0 113,7 126,6 138,9 Input power kW 17,2 19,7 22,5 26,5 31,0 33,8 37,4 41,5 EER W/W 3,42 3,32 3,4 3,35 3,56 3,52 3,71 3,55 COP W/W 3,42 3,32 3,4 3,35 3,32 3,36 3,37 3,35 Water flow rate I/h 10.240 11.350 13.160 15.330 17.770 19.680 22.490 24.620 Ear Compressors n° 2 2 2 2 2 2 2 2 2	Cooling capacity KW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 152,3 179,4 Input power KW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 40,3 44,8 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 3,77 4,0 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 4,21 4,36 Water flow rate I/h 10.870 12.010 13.800 16.590 19.380 21.430 23.900 26.210 30.880 20.01	Cooling capacity kW 63,1 69,2 80,2 94,1 112,5 124,4 138,7 152,3 179,4 198,9 1nput power kW 16,4 18,9 20,5 24,3 27,5 30,9 35,5 40,3 44,8 50,0 EER W/W 3,84 3,68 3,91 3,87 4,1 4,03 3,91 3,77 4,0 3,98 SEER W/W 4,40 4,32 4,37 4,33 4,26 4,15 4,29 4,21 4,36 4,21 Water flow rate Wh 10,870 12,010 13,800 16,590 19,380 21,430 23,900 26,210 30,880 34,240 24,000 24,	Cooling capacity

¹ Nominal cooling capacities based on 28°C and liquid inlet/outlet temperature 12/7°C 2 Nominal heating capacities based on 7°C and liquid inlet/outlet temperature 40/45°C 3 The value of sound power is measured in accordance with standard 9614-2

⁴ Unit total weight may vary according to chosen options 5 Tank volume by Hydronic versions

MODELS

Q+1264 - Q+2384 - Units with 2 cooling circuits

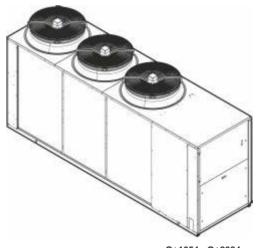


Q+1264

126.2

Q+1434

140 7



Q+1654 - Q+2384

TECHNICAL DATA

QUANTOR PLUS

Cooling capacity

Q+1264 - Q+2384- Units with 2 cooling circuits

kW

All QUANTOR PLUS units are equipped with:

Q+1924

190.0

- Scroll Compressor
- Scroil Compressor Electric connection 400V/3PhN/50Hz varying voltage levels on request Axial fan

Q+2174

214 4

Q+2384

238.0

Q+1654

160.9

CHILLERS	Cooling capacity	kvv	126,2	140,7	160,9	190,0	214,4	238,0
	Input power 1	kW	33,3	38,7	42,3	49,6	57,5	65,5
	EER1	W/W	3,79	3,64	3,81	3,83	3,73	3,63
	SEER	W/W	4,43	4,40	4,37	4,38	4,39	4,27
	Water flow rate 1	l/h	21.730	24.220	27.700	32.710	36.900	40.970
	QUANTOR PLUS-R		Q+1264-R	Q+1434-R	Q+1654-R	Q+1924-R	Q+2174-R	Q+2384-R
HEAT-PUMPS	Cooling capacity 1	kW	123,1	136,9	156,1	183,3	206,5	231,0
	Input power 1	kW	32,8	38,2	42,9	50,0	56,9	64,4
	Heating capacity ²	kW	119,7	133,9	155,5	175,3	195,0	213,7
	Input power ²	kW	35,6	40,4	47,0	53,3	57,8	62,7
	EER1	W/W	3,75	3,59	3,64	3,67	3,63	3,59
	COP ²	W/W	3,36	3,31	3,31	3,29	3,37	3,41
	Water flow rate 1	l/h	19.400	23.560	26.870	31.550	35.540	39.750
CHILLERS WÄRMEPHEAT-PUMPS	Compressors	n°	4	4	4	4	4	4
	Circuits	n°	2	2	2	2	2	2
	Fans	n°	2	2	3	3	3	3
	Sound power 1,3	dB(A)	86,5	87,1	88,8	88,8	90,1	90,0
	Hydraulic connections	Ø	2"½	2"1⁄2	2"½	2"1/2	2"1⁄2	2"1/2
	Height	mm	1.910	1.910	1.900	1.900	1.900	1.900
	Width	mm	1.100	1.100	1.100	1.100	1.100	1.100
	Lenght	mm	3.570	3.570	4.370	4.370	4.370	4.370
	Weight (when empty) 4	kg	1.275	1.351	1.461	1.563	1.626	1.670
	Buffer tank capacity 5	I	400	400	400	400	400	400

¹ Nominal cooling capacities based on 28 $^{\circ}\text{C}$ and liquid inlet/outlet temperature 12/7 $^{\circ}\text{C}$

² Nominal heating capacities based on 7°C and liquid inlet/outlet temperature 40/45°C 3 The value of sound power is measured in accordance with standard 9614-2

⁴ Unit total weight may vary according to chosen options

⁵ Tank volume by Hydronic versions

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