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► IT & Process Cooling



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Application:

- Provide chilled water for both IT and industrial applications, particularly enclosure/rack cooling equipment, such as the LCP and air/water heat exchangers, and process cooling
- Availability of buffer tanks and redundancy on both compressors and variable speed pumps are just some of the safety features that differentiate these atmospherically sealed systems

Technical design:

- Compact design with control components on the front, air intake via both sides and our outlet on the top
- Monitoring interface with CMC III supported
- Flow monitoring
- Integral bypass
- Steel tank, with 10 mm insulation

Protection category:

- IP 54

Supply includes:

- Chiller wired ready for connection
- Multi-lingual documentation
- Functional diagram and wiring plan

Temperature control:

- Electronic control with digital display (factory setting +15 °C)

Cooling output 15 to 124 kW

Model No.		3232.701	3232.711	3232.721	3232.731	3232.741	3232.751	3232.761	3232.771	3232.781	3232.791
Total cooling output	kW	15	24	36	48	67 ¹⁾	77	88	99 ¹⁾	117 ¹⁾	124
Width	mm	810 ²⁾	810 ²⁾	810 ²⁾	1000	1100	1100	1100	1100	1100	1100
Height	mm	1542 ²⁾	1542 ²⁾	1542 ²⁾	1780	1606	1606	1606	1606	1875	1875
Depth	mm	1800 ²⁾	1800 ²⁾	1800 ²⁾	2300	3240	3240	3240	3240	3240 ²⁾	3240 ²⁾
Rated operating voltage	V, ~, Hz	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50
Power consumption	kW	6.9	9.7	14.6	21	21	24	26	29	36	41
Rated maximum current	A	23.0	25.0	37.0	46.5	52.2	59.2	64.2	69.2	84.1	89.1
Refrigerant		R407C	R407C	R407C	R407C	R410A	R410A	R410A	R410A	R410A	R410A
Maximum refrigerant operating pressure	bar	28	28	28	28	45	45	45	45	45	45
Operating ambient temperature range	°C	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43
Liquid medium temperature range	°C	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20
Pump capacity	min	60	60	120	120	240	240	240	240	470	470
Pump pressure	bar	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Number of cooling circuits		1	1	1	1	2	2	2	2	2	2
Tank capacity	l	48	48	48	100	200	200	200	200	300	300
Water connections	Victaulic	1½ "	1½ "	1½ "	1½ "	DN65	DN65	DN65	DN65	DN65	DN65
Operating mass	kg	448 ²⁾	463 ²⁾	553 ²⁾	810 ²⁾	1096 ²⁾	1096 ²⁾	1106 ²⁾	1112 ²⁾	1419 ²⁾	1423 ²⁾
Colour		RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002
Air throughput of fans	m³/h	10880	10880	14000	18000	22000	22000	27000	27000	34100	34100

¹⁾ Cooling output varies if integrated free cooling option fitted, selections showing project specific performance data available upon request

²⁾ Figure varies if integrated free cooling option fitted

Options:

- Integrated free cooling option.
Please follow the instructions
- Buffer store for separate siting
- Emergency cooling with mains water infeed
- Integral bypass
- Special voltages

Note:

- Unit dimensions, operating mass, tank capacity and total cooling output may vary if integrated free cooling option fitted

Layout diagram:

- Available upon request

Cooling output 155 to 481 kW

Model No.		3232.801	3232.811	3232.821	3232.891	3232.831	3232.841	3232.851	3232.861	3232.871	3232.881
Total cooling output ¹⁾	kW	155 ¹⁾	172 ¹⁾	196 ¹⁾	235 ¹⁾	262 ¹⁾	291 ¹⁾	326 ¹⁾	387 ¹⁾	430 ¹⁾	481 ¹⁾
Width	mm	1100	1100	1100	1500	2200	2200	2200	2200	2200	2200
Height	mm	1875	1875	1875	1975	2450	2450	2450	2450	2450	2450
Depth	mm	3240 ²⁾	3240 ²⁾	4240	4350	3400	3400	3400	4250	4250	4250
Rated operating voltage	V, ~, Hz	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50	400, 3, 50
Power consumption	kW	47	52	60	70	80	93	106	121	141	159
Rated maximum current	A	108.1	120.1	127.1	149.1	181.1	203.1	225.1	293	295	325
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Maximum refrigerant operating pressure	bar	45	45	45	45	45	45	45	45	45	45
Operating ambient temperature range	°C	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43	-20 to +43
Liquid medium temperature range	°C	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20
Pump capacity	min	500	500	500	500	810	810	810	1200	1200	1200
Pump pressure	bar	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Number of cooling circuits		2	2	2	2	2	2	2	2	2	2
Tank capacity	l	300	300	300	700	700 ²⁾	700 ²⁾	700 ²⁾	700 ²⁾	700 ²⁾	700 ²⁾
Water connections	Victaulic	DN65	DN65	DN65	DN80	DN80	DN80	DN80	DN100	DN100	DN100
Operating mass	kg	1608 ²⁾	1621 ²⁾	1789 ²⁾	2633 ²⁾	3246 ²⁾	3393 ²⁾	3543 ²⁾	3848 ²⁾	4054 ²⁾	4276 ²⁾
Colour		RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002	RAL 9002
Air throughput of fans	m³/h	32600	32600	50000	49000	72800	71500	70200	106200	104100	102000

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²⁾ Figure varies if integrated free cooling option fitted

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IT & Process Cooling

As a system supplier, Rittal are the world's leading provider of exceptionally effective yet energy-efficient and environmentally-friendly climate control solutions, precisely tailored to the customer's individual requirements.

Faster – Simple project planning with the Therm App

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