

YN

Water-cooled screw compressor chiller

Dry cooler application – Heat recovery application

Heat pump application

Cooling capacities from 569 kW to 1310 kW

At Eurovent Standard Conditions this equipment meets A Class energy efficiency levels.



Features

High Efficiency Screw Compressor

The open drive twin rotary screw compressor has been engineered and constructed to meet the exact requirements of the industrial refrigeration market. It utilises state-of-the-art technology to provide the most reliable compressor, with high energy efficiency at all operating conditions.

Heat Exchangers

Shells – The flooded type evaporator and condenser shells are fabricated from rolled carbon steel plates with fusion welded seams. Carbon steel tube sheets, drilled and reamed to accommodate the tubes, are welded to the end of each shell. Intermediate tube supports are fabricated from 12 mm carbon steel plates.

Tubes – The copper alloy heat exchanger tubes are externally and internally enhanced to provide optimum performance.

Smooth and accurate capacity control

Capacity control is achieved by use of a slide valve which provides fully modulating control from 100% to 10% of full load, depending upon the unit selection. The slide valve is actuated by oil pressure controlled by external solenoid valves via the OptiView control centre.

Equipped with the optional Solid State Starter, the YN screw chiller starts “softly,” putting less stress on the motor and compressor, extending their life. In addition, the Solid State Starter includes an impressive array of safety controls that protect the chiller against: phase loss, phase reversal, phase imbalance, under-voltage, overvoltage, and over-current

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Nominal capacity

YN Model	RB RB S2	RB RD S2	RD RB S2	RD RD S2	RB RB S3	RB RD S3	RD RB S3	RD RD S3	RB RB S4	RB RD S4	RD RB S4
Cooling Capacity kW	569	570	579	579	740	742	759	761	965	966	1000
EER	5.54	5.62	5.7	5.79	5.3	5.42	5.48	5.62	4.96	5.12	5.19
ESEER	5.75	5.84	5.95	6.05	5.47	5.59	5.69	5.9	5.11	5.27	5.39
Class EER	A	A	A	A	A	A	A	A	B	A	A

YN Model	RD RD S4	SA SA S4	SA SD S4	SD SA S4	SD SD S4	RD RB S5	RD RD S5	SA SA S5	SA SD S5	SD SA S5	SD SD S5
Cooling Capacity kW (1)	997	1030	1030	1050	1051	1225	1229	1275	1277	1308	1310
EER	5.36	5.57	5.81	5.75	6	4.89	5.1	5.33	5.62	5.55	5.85
ESEER	5.56	5.73	6.01	5.97	6.27	5.06	5.28	5.44	5.78	5.72	6.08
Class EER	A	A	A	A	A	B	A	A	A	A	A

At 7°C leaving chilled water and 35°C leaving condenser water.

Technical data

YN Model	RB RB S2	RB RD S2	RD RB S2	RD RD S2	RB RB S3	RB RD S3	RD RB S3	RD RD S3	RB RB S4	RB RD S4	RD RB S4
Dimensions	Length	mm	3580								
	Width	mm	1549								
	Height	mm	2400								
Operating weight kg	5017	5127	5157	5267	5097	5207	5237	5347	5476	5586	5616

YN Model	RD RD S4	SA SA S4	SA SD S4	SD SA S4	SD SD S4	RD RB S5	RD RD S5	SA SA S5	SA SD S5	SD SA S5	SD SD S5
Dimensions	Length	mm	4211			3580		4211			
	Width	mm	1676			1585		1700			
	Height	mm	2500			2410		2500			
Operating weight kg	5726	6919	7408	7160	7649	5787	5897	7090	7579	7331	7820