

Benson

Chilled Water Condenser
Screw Compressor Chiller System

Benson Air Cooled
Reverse Cycle



- Modular screw compressor systems - two systems at a time can be bolted together to increase capacities and give versatility in adding to a system.
- All Systems use R290 hydrocarbon refrigerant only 3GWP per KG.
- Screw unloads 25%, 50%, 75% and 100%
- Single Modules range from 44 to 690 kW. Doubles to 1380kW.
- Design conditions water entering 12°C and leaving 5°C with an ambient of 35°C

Systems can be designed for higher ambient
Please ask your dealer for more information.



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Technical Specifications

Model Number	Nominal Ratings								Evaporator			Cond Fan kW	Length (mm)	Width (mm)	Height (mm)	dBa	Weight KG
	kWr Cooling	kWr Heating	kW Input Cool	EER	kW Input Heating	COP	Normal running Amps	Maximum running Amps 43°C	M3 / H	Pipe Size	kPa						
BENCW-1P-CHSC-145RV3A	146.7	153.5	44.8	3.3	42.7	3.6	81.2	118.4	25.2	DN65	<50	0.75x4	2100	1800	2350	76	1800
BENCW-1P-CHSC-165RV3A	165.9	174.1	51.3	3.2	48.8	3.6	91.9	124.0	28.5	DN65		0.55 x 6	2200	2100	2400	76	2150
BENCW-1P-CHSC-220RV3A	221.8	235.4	71.4	3.1	68	3.5	127.9	170.1	38.1	DN80		1.5 x 4	2500	2100	2400	77	2310
BENCW-1P-CHSC-250RV3A	249.2	267.0	77.4	3.2	73.8	3.6	139.5	220.1	42.9	DN80		1.5 x 6	3000	2100	2400	77	2400
BENCW-1P-CHSC-280RV3A	279	297.1	90.7	3.1	86.6	3.4	163.6	257.6	48.0	DN100		1.5 x 6	3000	2100	2400	78	3100
BENCW-1P-CHSC-310RV3A	309.3	328.4	103.8	3.0	99.7	3.3	182.7	268.1	53.2	DN100		1.5 x 6	3500	2100	2400	79	3350
BENCW-1P-CHSC-350RV3A	350.2	370.8	111.7	3.1	106.6	3.5	192.9	288.6	60.2	DN100		1.5 x 6	3500	2100	2400	80	3650
BENCW-1P-CHSC-425RV3A	425.2	444.0	128.8	3.3	122.9	3.6	234.0	302.7	73.1	DN125		1.5 x 8	5000	2100	2400	80	3800
BENCW-1P-CHSC-500RV3A	501.8	525.5	153.7	3.3	146.6	3.6	275.1	368.5	86.3	DN125		1.5 x 10	5000	2100	2400	81	4300
BENCW-1P-CHSC-550RV3A	550.4	579.6	172.0	3.2	164.2	3.5	309.5	416.4	94.7	DN125		1.5 x 12	6000	2100	2400	81	6200
BENCW-1P-CHSC-620RV3A	618.6	656.8	207.6	3.0	199.5	3.3	365.5	536.2	106.4	DN150		1.5 x 12	6000	2100	2400	82	6750
BENCW-1P-CHSC-700RV3A	700.4	738.8	220.4	3.2	210.2	3.5	395.3	569.6	120.4	DN 150		1.5 x 14	7000	2100	2400	82	7300

* Note: Maximum running Amperage is 43°C

- Screw type compressor with Zero, 25%, 50%, 75% and 100% unloading
- Refrigerant is R290. If installed in plant rooms we recommend an alarm system and ventilation system be installed. (Check your national standards)

Capacities tested

- water entering the evaporator at 12°C, leaving at 7°C
- condensing temperature ambient of 35°C

**Please note these system are modular and two can be bolted together
For 1,400 kW capacity.**

Distributor

Benson Airconditioning

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