

Benson

**Chilled Water Condenser
Scroll Compressor Chiller System**

**Benson Air Cooled
Reverse Cycle**



- Modular multi stage compressor systems - two systems can be bolted together at a time to increase capacities and give versatility in adding to a system.
- All Systems use R290 hydrocarbon refrigerant only 3GWP per KG.
- Single Modules range from 27 to 255 kW
- Two Modules up to 510kW.
- Design conditions water entering 12°C and leaving 5°C with an ambient of 35°C

**Systems can be designed for higher ambient of 52°C.
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-CH-28RV3A	27.8	29.0	8.4	3.3	8.2	3.5	16.1	21.1	4.8	DN25		0.55	1260	1100	1260	73	420
BENCW-1P-CH-33RV3A	33.3	35.6	10.2	3.3	9.9	3.6	19.1	23.9	5.7	DN32		0.75	160	1100	1260	73	450
BENCW-1P-CH-42RV3A	41.9	44.6	12.7	3.3	12.3	3.6	23.6	25.2	7.2	DN32		0.37 x 2	1700	1100	1260	74	500
BENCW-1P-CH-55RV3A	54.8	58.6	16.8	3.3	16.5	3.6	32.1	42.0	9.4	DN40		0.55x2	1900	1100	2100	74	600
BENCW-1P-CH-65RV3A	65.6	70.3	20.3	3.2	19.9	3.5	38.2	47.8	11.3	DN40	<50	0.75 x 2	1900	1100	2100	75	620
BENCW-1P-CH-80RV3A	82.6	88.4	25.5	3.2	24.8	3.6	47.3	50.2	14.2	DN50		0.55 x 3	2350	1100	2100	75	720
BENCW-1P-CH-110RV3A	109.7	117.1	33.5	3.3	33.0	3.5	64.1	84.0	18.9	DN65		0.55 x 4	1800	1800	2350	76	1250
BENCW-1P-CH-130RV3A	131.1	140.7	40.7	3.2	39.7	3.5	76.3	95.5	22.5	DN65		0.75 x 4	1800	1800	2350	76	1300
BENCW-1P-CH-145RV3A	144.4	152.1	42.8	3.4	41.2	3.7	77.6	102.1	24.8	DN65		0.75 x 4	2100	1800	2350	76	1400
BENCW-1P-CH-165RV3A	165.3	176.8	50.9	3.2	49.7	3.6	94.5	100.3	28.4	DN65		0.55 x 6	2200	2100	2400	77	1850
BENCW-1P-CH-215RV3A	216.6	227.8	65.7	3.3	63.2	3.6	117.2	154.1	37.3	DN80		1.5 x 4	2500	2100	2400	77	1950
BENCW-1P-CH-255RV3A	257.4	271.6	78.2	3.3	75.5	3.6	136.0	173.9	44.3	DN80		1.5 x 6	3000	2100	2400	79	2600
BENCW-1P-CH-285RV3A	284.5	303.5	88.6	3.2	85.3	3.6	158.9	207.9	48.9	DN100		1.5 x 6	3000	2100	2400	80	2800

* 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

Distributor

Benson Airconditioning

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