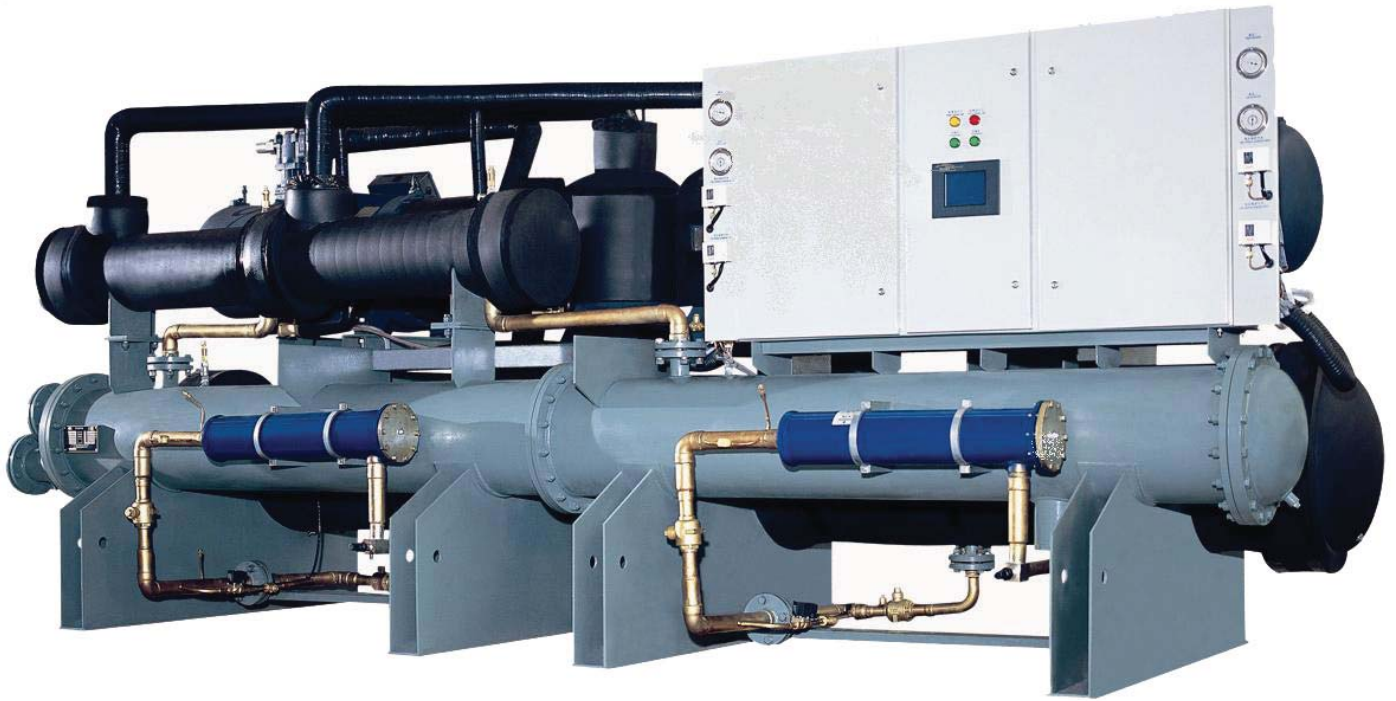


**Benson**

# Chilled Water System Condenser Heat Recovery Compressor Type Screw Benson Water Cooled



- Multi stage screw compressor systems tube in tube water tube type flooded evaporator
- All Systems use R290 hydrocarbon refrigerant only 3GWP per KG.
- Units range from 130 to 3200 kW

## Design conditions

Chilled water

- Entering: 12°C
- Leaving: 5°C

Condensing water

- Entering: 30°C
- Leaving: 35°C

Heat Recovery

- Entering: 20°C
- Leaving: 60°C

Systems can be designed for different entering conditions.  
Please ask your dealer for more information.

**Benson**

# Chilled Water System Condenser Heat Recovery Compressor Type Screw

## Benson Water Cooled

### Technical Specifications

Model Number	Nominal Ratings				Evaporator		Condenser		Heat Recovery		Length (mm)	Width (mm)	Height (mm)	dBa	Weight KG
	kWr	Heat Recovery kW	kW Input	EER	M3 / H	Pipe Size	M3 / H	Pipe Size	M3 / H	Pipe Size					
BENCW-1P-CHCS-130CO3WHR	129.8	32.5	29.1	4.5	22.4	DN65	27.3	DN65	5.6	DN32	2800	650	1665	69	1150
BENCW-1P-CHCS-170CO3WHR	167.3	41.8	34.6	4.8	28.8	DN80	34.7	DN65	7.2	DN32	3400	700	1665	70	1300
BENCW-1P-CHCS-190CO3WHR	189.2	47.3	39.8	4.8	32.6	DN80	39.4	DN65	8.2	DN40	2750	800	1745	71	1750
BENCW-1P-CHCS-250CO3WHR	252.9	63.2	54.2	4.7	43.5	DN100	52.8	DN80	10.9	DN40	2800	800	1800	72	2100
BENCW-1P-CHCS-280CO3WHR	280.6	70.2	58.7	4.8	48.3	DN100	58.3	DN80	12.1	DN50	3050	800	1800	73	2450
BENCW-1P-CHCS-320CO3WHR	318.2	79.6	67.7	4.7	54.8	DN100	66.4	DN80	13.7	DN50	3250	1200	1415	74	2680
BENCW-1P-CHCS-400CO3WHR	399.4	99.9	82.7	4.8	68.7	DN125	82.9	DN100	17.2	DN50	2950	1310	1465	75	2700
BENCW-1P-CHCS-480CO3WHR	484.9	121.2	96.8	5.0	83.5	DN125	100.0	DN100	20.9	DN65	3400	1310	1465	76	2900
BENCW-1P-CHCS-570CO3WHR	572.3	143.1	115.0	5.0	98.5	DN125	118.2	DN125	24.6	DN65	3800	1370	1495	77	3200
BENCW-1P-CHCS-630CO3WHR	627.7	156.9	127.7	4.9	108.1	DN150	129.9	DN125	27.0	DN65	3750	1370	1495	78	3700
BENCW-1P-CHCS-690CO3WHR	689.3	172.3	146.9	4.7	118.7	DN150	143.8	DN125	29.7	DN65	4150	1380	1520	79	3800
BENCW-1P-CHCS-770CO3WHR	770.6	192.7	162.1	4.8	132.7	DN150	160.4	DN150	33.2	DN65	3900	1380	1530	79	4050
BENCW-1P-CHCS-860CO3WHR	859.2	214.8	174.7	4.9	147.9	DN200	177.8	DN150	37.0	DN80	4300	1380	1550	80	4450
BENCW-1P-CHCS-970CO3WHR	969.8	242.5	193.6	5.0	167.0	DN200	200.1	DN100 x2	41.8	DN65 x 2	3700	1300	2080	81	6600
BENCW-1P-CHCS-1140CO3WHR	1144.6	286.2	230.0	5.0	197.1	DN200	236.4	DN125 x 2	49.3	DN65 x 2	3650	1370	2185	82	7200
BENCW-1P-CHCS-1190CO3WHR	1194.0	298.5	243.8	4.9	205.5	DN200	247.3	DN200	51.4	DN100	4400	1550	1750	83	7500
BENCW-1P-CHCS-1250CO3WHR	1255.4	313.9	255.4	4.9	216.2	DN200	259.8	DN125 x 2	54.1	DN65 x 2	4420	1470	2240	83	7700
BENCW-1P-CHCS-1380CO3WHR	1378.6	344.7	285.7	4.8	237.4	DN200	286.2	DN125 x 2	59.4	DN100	4850	1470	2280	83	7900
BENCW-1P-CHCS-1400CO3WHR	1406.0	351.5	293.7	4.8	242.1	DN200	292.3	DN200	60.5	DMZ x 2	4600	1600	1880	83	8000
BENCW-1P-CHCS-1540CO3WHR	1541.2	385.3	324.2	4.8	265.4	DN200	320.8	DN150 x 2	66.4	DN65 x 2	5100	1470	2295	84	8500
BENCW-1P-CHCS-1600CO3WHR	1606.5	401.6	323.1	5.0	276.6	DN200	331.8	DN200	69.2	DN125	4800	1600	1900	85	8800
BENCW-1P-CHCS-1720CO3WHR	1718.4	429.6	349.4	4.9	295.9	DN250	355.6	DN150 x 2	74.0	DN80 x 2	5350	1470	2335	85	8900
BENCW-1P-CHCS-2490CO3WHR	2388.0	597.0	480.9	5.0	411.1	DN250	493.4	DN200 x 2	102.8	DN100 x 2	5200	2200	2350	87	13000
BENCW-1P-CHCS-2810CO3WHR	2812.0	703.0	571.4	4.9	484.1	DN250	581.8	DN200 x 2	121.0	DN100 x 2	5600	2200	2620	87	14000
BENCW-1P-CHCS-3210CO3WHR	3213.0	803.3	646.2	5.0	553.2	DN250	663.7	DN200 x 2	138.3	DN125 x 2	5800	2200	2660	87	15000

- 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
- water entering the condenser at 30°C, leaving at 35°C
- heat recovery at 20°C, leaving at 60°C

#### Distributor

#### Benson Airconditioning

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