

INDUSTRIAL WATER CHILLERS





INDUSTRIAL WATER CHILLERS

Frigoblock Industrial Water Chillers provide efficient and reliable cooling solutions for industrial processes and HVAC applications. Designed to maintain precise water or glycol temperatures, they feature advanced microprocessor controls, flexible compressor and refrigerant options, and wide operating ranges for stable operation under varying conditions.

Chiller Capacity Range



Compressor Type

● Scroll ● Screw ● Reciprocating

NOTE

Capacity ranges shown are based on the supplied product data. Final capacity may vary according to operating conditions.

Application Areas

Industrial Manufacturing & Production

- Plastics and Rubber Industry
- Food and Beverage Industry
- Chemical and Pharmaceutical Industries
- Metalworking and Laser Technology
- Textile and Dyehouse Facilities
- Packaging and Printing



HVAC & Commercial Buildings

- Residential Buildings, Hospitals, and Shopping Malls
- Business Centers, Towers, and Office Buildings
- Airports and Transportation Terminals
- Educational Institutions



Energy & Heavy Industry

- Power Plants
- Petrochemical Facilities
- Mining and Tunneling Operations



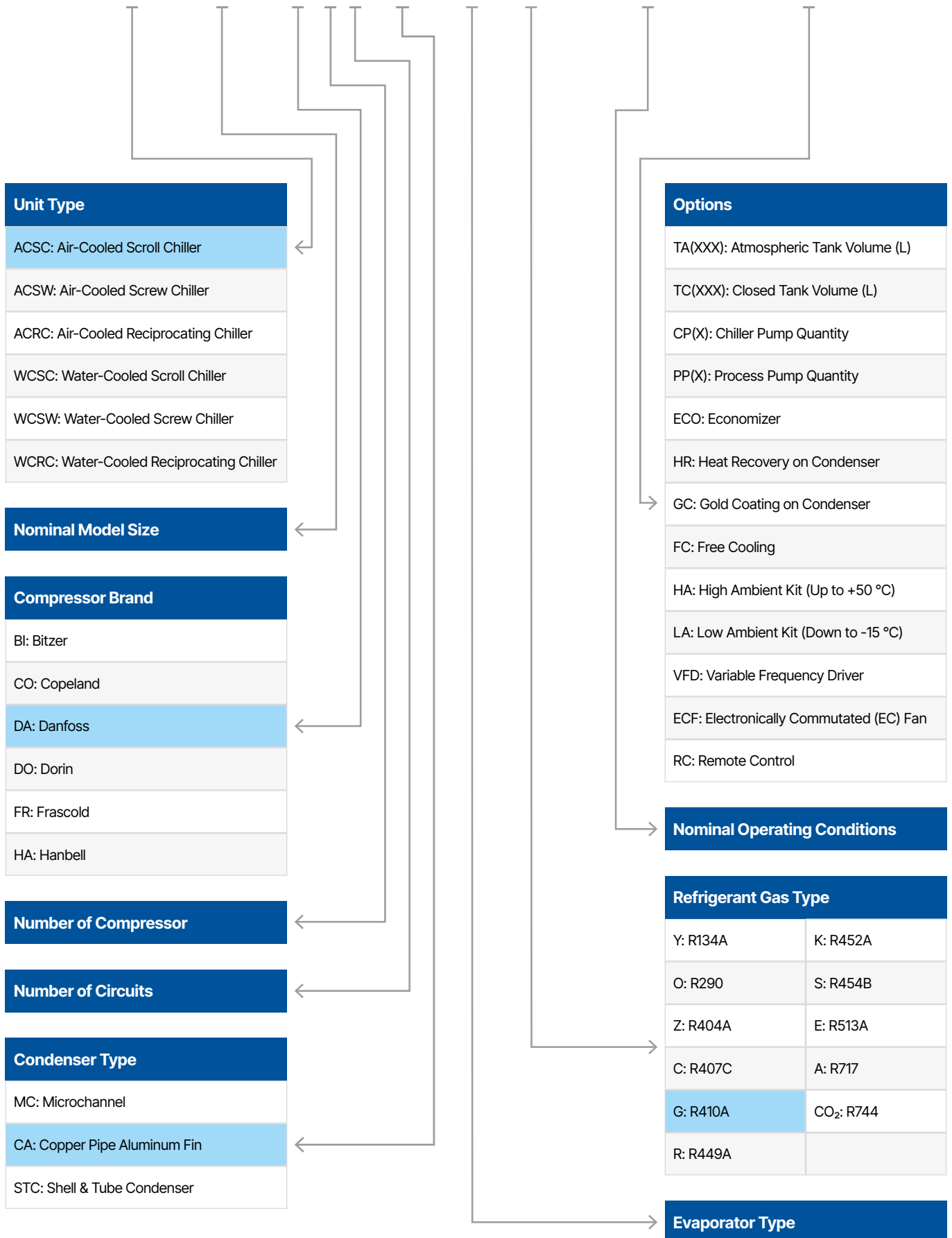
Product Comparison



SERIAL NAME	ACSC	ACSC-VFD	ACSW	ACRC	WCSC	WCSW	WCRC
Capacity Range (kW)	6 - 850	14 - 90	459 - 1534	8 - 172	112 - 915	775 - 2126	12 - 172
Compressor Type	Scroll	Scroll VFD	Screw	Reciprocating	Scroll	Screw	Reciprocating
Condenser Type	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Water-Cooled	Water-Cooled	Water-Cooled
Evaporator Type	Shell & Tube or Brazed Plate	Brazed Plate	Shell & Tube	Shell & Tube or Brazed Plate	Brazed Plate	Shell & Tube	Shell & Tube or Brazed Plate
Refrigerant	R410A or R454B	R410A or R454B	R134a or R513A	R404A or R452A	R410A or R454B	R134a or R513A	R404A or R452A
Components & Options							
Heat Recovery	○	○	○	○	N/A	N/A	N/A
EC Fans	○	○	○	○	N/A	N/A	N/A
Economiser Circuit	N/A	N/A	○	N/A	N/A	○	N/A
Electronic Expansion Valve (EEV)	○	●	●	○	○	●	○
Hydronic Kit	○	○	○	○	○	○	○
Inverter Compressor	N/A	●	○	○	N/A	○	○
Coated Condenser	○	○	○	○	N/A	N/A	N/A

● Standard ○ Optional N/A Not Available

ACSC-300-DA22-CA-BPE-G (+6/+50 °C) Options





ACSC



Scroll Compressor



R410A



High Efficiency Cooling



Microprocessor Control

AIR-COOLED SCROLL CHILLER

Key Features

- Hermetic scroll compressors
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

- Hydronic kit
- Electronic expansion valve
- Heat recovery
- Epoxy or Blygold coated condenser coils
- R454B refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature +6 / +50 °C | Water Inlet / Outlet +15 / +10 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
ACSC-6	6,62	2,31	2,86	1	579	1.298	799
ACSC-8	8,83	2,90	3,04	1	630	1.549	976
ACSC-10	10,60	3,47	3,06	1	630	1.549	976
ACSC-13	13,07	4,00	3,27	1	863	1.809	1.297
ACSC-16	16,51	4,80	3,44	1	863	1.809	1.297
ACSC-22	22,13	6,57	3,37	1	863	1.809	1.297
ACSC-26	26,05	7,68	3,39	1	966	2.259	1.297
ACSC-29	29,56	8,64	3,42	1	966	2.259	1.297
ACSC-34	33,52	9,75	3,44	1	966	2.259	1.297
ACSC-38	38,51	11,09	3,47	1	968	2.051	1.740
ACSC-42	43,07	12,42	3,47	1	968	2.051	1.740
ACSC-44	44,26	13,14	3,37	2	968	2.051	1.740
ACSC-52	52,10	15,37	3,39	2	968	2.552	1.737
ACSC-58	59,12	17,27	3,42	2	968	2.552	1.737
ACSC-66	67,04	19,49	3,44	2	1.109	2.652	1.800
ACSC-76	77,02	22,18	3,47	2	1.109	2.652	1.800
ACSC-86	86,14	24,84	3,47	2	1.129	2.952	1.900
ACSC-104	104,20	30,73	3,39	4	2.250	2.550	2.100
ACSC-118	118,24	34,55	3,42	4	2.250	2.550	2.100
ACSC-134	134,08	38,98	3,44	4	2.250	2.550	2.100
ACSC-154	154,04	44,36	3,47	4	2.250	2.550	2.100
ACSC-172	172,28	49,68	3,47	4	2.250	2.900	2.700
ACSC-232	232,64	68,16	3,41	4	2.250	2.900	2.700
ACSC-284	284,64	81,48	3,49	4	2.250	4.100	2.700
ACSC-356	356,20	103,44	3,44	4	2.250	4.100	2.700
ACSC-462	462,00	129,80	3,56	4	2.250	5.300	2.700
ACSC-568	568,40	162,56	3,50	4	2.250	6.500	2.700
ACSC-692	693,00	194,70	3,56	6	2.250	7.700	2.700
ACSC-852	852,60	243,84	3,50	6	2.250	8.900	2.700

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for R410A refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.

ACSC-VFD



VFD Compressor



R410A



Electronic Expansion Valve



Microprocessor Control

AIR-COOLED SCROLL CHILLER WITH VFD

Key Features

- Hermetic scroll compressors
- Inverter-driven (VFD) compressor
- Electronic expansion valve
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

- Hydronic kit
- Heat recovery
- Epoxy or Blygold coated condenser coils
- R454B refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature +6 / +50 °C | Water Inlet / Outlet +15 / +10 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
ACSC-15-VFD	14,27	4,77	2,99	1	863	1.809	1.297
ACSC-19-VFD	18,07	5,70	3,17	1	863	1.809	1.297
ACSC-24-VFD	23,23	7,19	3,23	1	966	2.259	1.297
ACSC-30-VFD	30,71	9,47	3,24	1	966	2.259	1.297
ACSC-38-VFD	38,24	11,79	3,24	1	968	2.051	1.740
ACSC-46-VFD	46,19	14,60	3,16	1	968	2.552	1.737
ACSC-62-VFD	61,49	18,88	3,26	1	1.109	2.652	1.800
ACSC-90-VFD	89,84	26,71	3,36	1	1.129	2.952	1.900

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for **R410A** refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.



ACSW



Screw Compressor



R134A



Capacity Control System



Shell & Tube Heat Exchanger

AIR-COOLED SCREW CHILLER

Key Features

- Semi-hermetic screw compressors
- Capacity control system
- Electronic expansion valve
- Part-winding or star-delta starting configuration
- Shell & Tube heat exchanger
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

- Inverter-driven (VFD) compressor
- Hydronic kit
- Heat recovery
- Epoxy or Blygold coated condenser coils
- Economiser circuit
- R513A refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature +6 / +50 °C | Water Inlet / Outlet +15 / +10 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
ACSW-460	459,6	130,40	3,52	1	2.250	5.300	2.570
ACSW-520	520,30	138,60	3,75	1	2.250	6.500	2.570
ACSW-608	608,70	161,10	3,78	1	2.250	7.700	2.700
ACSW-760	760,60	203,80	3,73	2	2.250	8.900	2.700
ACSW-872	872,60	233,60	3,74	2	2.250	10.100	2.700
ACSW-919	919,20	260,80	3,52	2	2.250	10.100	2.700
ACSW-1040	1040,60	277,20	3,75	2	2.250	11.300	2.700
ACSW-1217	1217,40	322,20	3,78	2	2.250	13.500	2.700

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for **R134A** refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.



ACRC



Reciprocating Compressor



R404A



Microprocessor Control



Capacity Control System

AIR-COOLED RECIPROCATING CHILLER

Key Features

- Semi-hermetic reciprocating compressors
- Capacity control system
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

- Hydronic kit
- Electronic expansion valve
- Heat recovery
- Epoxy or Blygold coated condenser coils
- R452A refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature -12 / +45 °C | Water Inlet / Outlet -3 / -8 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
ACRC-8	8,12	3,92	2,07	1	630	1551	977
ACRC-10	9,70	4,70	2,06	1	863	1.809	1.297
ACRC-12	12,20	5,79	2,11	1	863	1.809	1.297
ACRC-15	15,10	7,18	2,10	1	863	1.809	1.297
ACRC-20	19,50	8,71	2,24	1	966	2.259	1.297
ACRC-24	23,60	10,30	2,29	1	966	2.259	1.297
ACRC-27	26,90	12,10	2,22	1	966	2.259	1.297
ACRC-32	31,50	14,00	2,25	1	968	2.051	1.740
ACRC-35	35,10	15,40	2,28	1	968	2.051	1.740
ACRC-40	40,90	18,00	2,27	1	968	2.552	1.737
ACRC-47	47,30	21,90	2,16	1	968	2.552	1.737
ACRC-56	55,80	24,70	2,26	1	968	2.552	1.737
ACRC-65	64,60	28,70	2,25	1	1.109	2.652	1.800
ACRC-74	73,40	32,90	2,23	1	1.129	2.952	1.900
ACRC-86	86,20	39,10	2,20	1	1.129	2.952	1.900
ACRC-16	16,24	7,84	2,07	2	968	2.051	1.740
ACRC-20	19,40	9,40	2,06	2	968	2.051	1.740
ACRC-24	24,40	11,58	2,11	2	968	2.051	1.740
ACRC-30	30,20	14,36	2,10	2	968	2.051	1.740
ACRC-39	39,00	17,42	2,24	2	968	2.552	1.737
ACRC-47	47,20	20,60	2,29	2	968	2.552	1.737
ACRC-54	53,80	24,20	2,22	2	1.109	2.652	1.800
ACRC-63	63,00	28,00	2,25	2	1.109	2.652	1.800
ACRC-70	70,20	30,80	2,28	2	1.129	2.952	1.900
ACRC-82	81,80	36,00	2,27	2	1.129	2.952	1.900
ACRC-95	94,60	43,80	2,16	2	2.250	2.550	2.100
ACRC-112	111,60	49,40	2,26	2	2.250	2.550	2.100
ACRC-130	129,20	57,40	2,25	2	2.250	2.550	2.100
ACRC-147	146,80	65,80	2,23	2	2.250	4.100	2.100
ACRC-172	172,40	78,20	2,20	2	2.250	4.100	2.100

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for R404A refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.



WCSC



Scroll Compressor



R410A



Microprocessor-controlled



Indoor Installation Flexibility

WATER-COOLED SCROLL CHILLER

Key Features

- Hermetic scroll compressors
- Indoor installation flexibility
- Shell & Tube or Braze Plate heat exchanger
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

- Hydronic kit
- Electronic expansion valve
- Corrosion-resistant condenser for aggressive water
- R454B refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature +6 / +45 °C | Water Inlet / Outlet +15 / +10 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
WCSC-112	112,32	27,53	4,08	4	1.200	2.710	2.100
WCSC-128	127,36	30,86	4,13	4	1.200	2.910	2.100
WCSC-145	144,28	35,02	4,12	4	1.200	3.110	2.100
WCSC-166	165,88	39,66	4,18	4	1.200	2.940	2.200
WCSC-185	185,80	44,52	4,17	4	1.200	3.240	2.200
WCSC-250	250,60	61,04	4,11	4	1.200	3.270	2.200
WCSC-306	306,56	72,96	4,20	4	1.300	3.270	2.300
WCSC-384	383,88	92,72	4,14	4	1.300	3.320	2.300
WCSC-496	496,40	116,88	4,25	4	1.300	3.320	2.300
WCSC-610	610,40	145,76	4,19	4	1.300	3.350	2.300
WCSC-745	744,60	175,32	4,25	6	1.400	3.350	2.400
WCSC-915	915,60	218,64	4,19	6	1.400	3.350	2.400

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for **R410A** refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.



WCSW



Screw Compressors



R134A



Electronic Expansion Valve



Shell & Tube Heat Exchanger

WATER-COOLED SCREW CHILLER

Key Features

- Semi-hermetic screw compressors
- Capacity control system
- Electronic expansion valve
- Part-winding or star-delta starting configuration
- Indoor installation flexibility
- Shell & Tube heat exchanger
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

- Inverter-driven (VFD) compressor
- Hydronic kit
- Corrosion-resistant condenser for aggressive water
- Economiser circuit
- R513A refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature +6 / +45 °C | Water Inlet / Outlet +15 / +10 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
WCSW-775	775,00	169,60	4,57	2	1.400	4.780	2.300
WCSW-816	816,20	183,20	4,46	2	1.400	4.780	2.300
WCSW-936	936,40	210,00	4,46	2	1.400	4.780	2.300
WCSW-1038	1038,80	229,40	4,53	2	1.400	4.780	2.300
WCSW-1116	1116,60	249,20	4,48	2	1.700	5.070	2.300
WCSW-1306	1306,40	289,80	4,51	2	1.700	5.070	2.300
WCSW-1495	1495,60	335,60	4,46	2	1.700	5.280	2.300
WCSW-1648	1647,20	365,60	4,51	2	1.700	5.280	2.300
WCSW-1901	1901,00	408,00	4,66	2	1.700	5.280	2.400
WCSW-2126	2126,80	460,20	4,62	2	1.700	5.280	2.400

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for **R134A** refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.



WCRC



Reciprocating Compressors



R404A



Capacity Control System



Microprocessor Control

WATER-COOLED RECIPROCATING CHILLER

Key Features

- Semi-hermetic reciprocating compressors
- Capacity control system
- Indoor installation flexibility
- Shell & Tube or Brazen Plate heat exchanger
- Compressor and liquid line shut-off valves
- Microprocessor-controlled pre-assembled electrical panel
- Electrostatic powder-coated galvanized steel cabinet

Options:

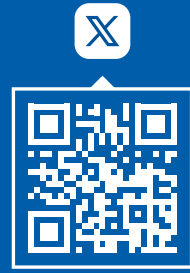
- Hydronic kit
- Electronic expansion valve
- Corrosion-resistant condenser for aggressive water
- R452A refrigerant

Technical Specifications & Performance Data

Evaporating / Condensing Temperature -12 / +45 °C | Water Inlet / Outlet -3 / -8 °C

Model	Q (kW)	CP (kW)	C.O.P Compressor	Quantity of Compressor	Weight (mm)	Length (mm)	Height (mm)
WCRC-12	12,20	5,79	2,11	1	1.200	1.990	1.800
WCRC-15	15,10	7,18	2,10	1	1.200	1.990	1.800
WCRC-20	19,50	8,71	2,24	1	1.200	2.015	1.800
WCRC-24	23,60	10,30	2,29	1	1.200	2.015	1.800
WCRC-27	26,90	12,10	2,22	1	1.200	2.015	1.800
WCRC-32	31,50	14,00	2,25	1	1.400	2.315	1.800
WCRC-35	35,10	15,40	2,28	1	1.400	2.315	1.800
WCRC-40	40,90	18,00	2,27	1	1.400	2.715	1.900
WCRC-47	47,30	21,90	2,16	1	1.400	2.315	1.900
WCRC-56	55,80	24,70	2,26	1	1.400	2.715	1.900
WCRC-65	64,60	28,70	2,25	1	1.400	3.115	1.900
WCRC-74	73,40	32,90	2,23	1	1.400	3.115	1.900
WCRC-86	86,20	39,10	2,20	1	1.400	3.115	1.900
WCRC-24	24,40	11,58	2,11	2	1.400	1.990	1.800
WCRC-30	30,20	14,36	2,10	2	1.400	1.990	1.800
WCRC-39	39,00	17,42	2,24	2	1.600	2.015	1.900
WCRC-47	47,20	20,60	2,29	2	1.600	2.015	1.900
WCRC-54	53,80	24,20	2,22	2	1.600	2.015	1.900
WCRC-63	63,00	28,00	2,25	2	1.600	2.315	1.900
WCRC-70	70,20	30,80	2,28	2	1.600	2.315	2.000
WCRC-82	81,80	36,00	2,27	2	1.600	2.715	2.000
WCRC-95	94,60	43,80	2,16	2	1.600	2.315	2.000
WCRC-112	111,60	49,40	2,26	2	1.800	3.270	2.000
WCRC-130	129,20	57,40	2,25	2	1.800	3.270	2.000
WCRC-147	146,80	65,80	2,23	2	1.800	3.320	2.000
WCRC-172	172,40	78,20	2,20	2	1.800	3.320	2.000

Q: Refrigeration Capacity CP: Compressor Input Power C.O.P.: Compressor Coefficient Of Performance
Capacity values are calculated for R404A refrigerant, +35 °C ambient temperature, and 400V / 3Ph / 50 Hz.



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