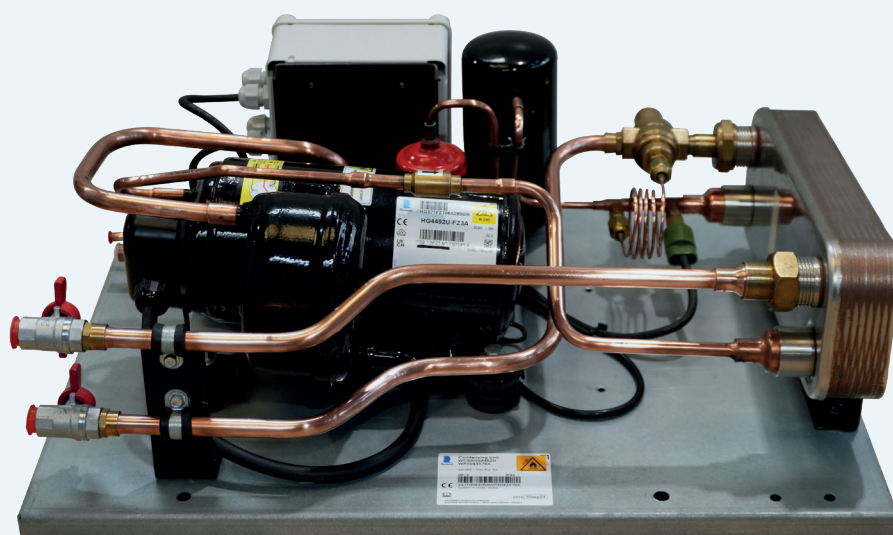
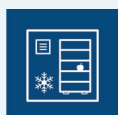


WATER COOLED CONDENSING UNIT

LBP & MHBP APPLICATIONS



APPLICATIONS



cold room



display case



reach-in

AUTHORIZED REFRIGERANTS



R-454C

R-455A

R-1234yf



R-452A

R-448A
R-449A

R-513A

R-134a

FEATURES & BENEFITS

HIGH EFFICIENCY

- Low condensing temperature
- Optimized condenser

EASY TO INSTALL

- Compact
- High level of equipment
- Very quiet

LONG TERM SOLUTION

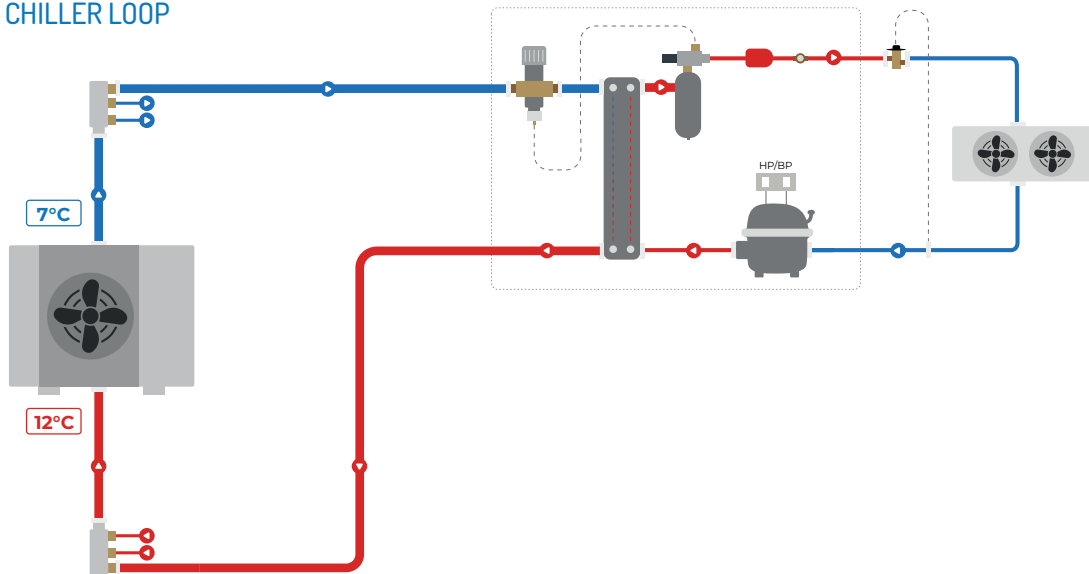
- Robust
- Low refrigerant charge
- Green refrigerant
- Factory leak test

LARGE COOLING CAPACITY RANGE

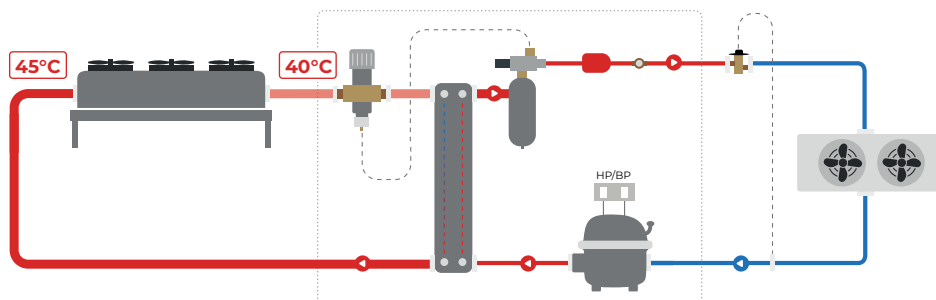
- From 300 to 15700 W

WATER-COOLED APPLICATIONS

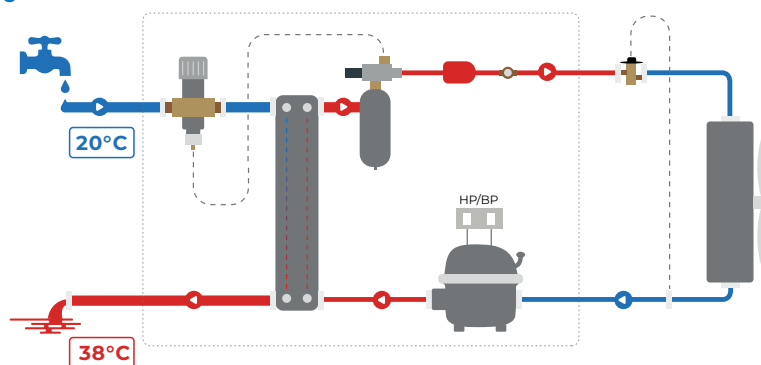
COOLING CHILLER LOOP



AMBIANT DRY COOLER LOOP IN SUMMER



PUBLIC WATER COOLING



COOLING PERFORMANCE

SHELL & TUBE WCCU

MHBP – MEDIUM AND HIGH BACK PRESSURE

MHBP – MEDIUM AND HIGH BACK PRESSURE							PUBLIC WATER COOLING APP	
MODEL	REFRIG. TYPE	REFRIG.	VOLTAGE (50Hz)	NOMINAL WATER FLOW RATE (m³/h)	MAX. VALVE PRESSURE DROP (bar)	MAX. EXCHANGER PRESSURE DROP (bar)	COOLING CAPACITY (W) -10°C EVAP. T° 45°C COND. T°	BASE DIMENSIONS L x W (mm)
R-449A								
AE4440Z-FZ	A1	R404A/R448A/ R449A/R452A	230V 1~	0.35	0.04	0.51	0.51	510x430
AE4460Z-FZ	A1		230V 1~	0.35	0.04	0.51	0.82	510x430
AJ4480P-FZ	A2L/A1	R404A/R448A/ R449A/R452A/ R455A/R454C	230V 1~	1.04	0.33	0.21	1.08	610x515
AJ4510P-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	1.36	610x515
AJ4510P-TX	A2L/A1		400V ~3N	1.04	0.33	0.21	1.36	610x515
AJ4513P-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	1.71	610x515
AJ4517P-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	1.89	610x515
AJ4517P-TX	A2L/A1		400V ~3N	1.04	0.33	0.21	1.92	610x515
AJ4519P-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	2.43	610x515
AJ4519P-TX	A2L/A1		400V ~3N	1.04	0.33	0.21	2.49	610x515
FH4524P-TX	A2L/A1		400V ~3N	1.78	0.43	0.66	2.76	645x515
FH4524P-XC	A2L/A1		230V 1~	1.78	0.43	0.66	2.87	645x515
FH4532P-TX	A2L/A1		400V ~3N	1.78	0.43	0.66	3.51	645x515
FH4538P-TX	A2L/A1		400V ~3N	1.78	0.43	0.66	4.62	645x515
FH4544P-TX	A2L/A1		400V ~3N	1.78	0.43	0.66	5.23	645x515
R-134a								
AE4450N-FZ	A2L/A1	R1234yf/R134a/ R513A	230V 1~	0.35	0.04	0.51	0.64	510x430
AJ4461N-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	0.72	610x515
AJ4492N-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	1.07	610x515
AJ4511N-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	1.43	610x515
AJ4513N-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	1.52	610x515
FH4525N-TX	A2L/A1		400V ~3N	1.04	0.33	0.21	2.47	645x515
FH4525N-XC	A2L/A1		230V 1~	1.04	0.33	0.21	2.51	645x515

LBP – LOW BACK PRESSURE

MODEL	REFRIG. TYPE	REFRIG.	VOLTAGE (50Hz)	NOMINAL WATER FLOW RATE (m³/h)	MAX. VALVE PRESSURE DROP (bar)	MAX. EXCHANGER PRESSURE DROP (bar)	COOLING CAPACITY (W) -30°C EVAP. T° 45°C COND. T°	BASE DIMENSIONS L x W (mm)
R-449A								
AJ2446P-FZ	A2L/A1	R404A/R448A/ R449A/R452A/ R455A/R454C	230V 1~	1.04	0.33	0.21	0.60	610x515
AJ2464P-FZ	A2L/A1		230V 1~	1.04	0.33	0.21	0.78	645x515
FH2480P-TX	A2L/A1		400V ~3N	1.78	0.43	0.66	1.18	645x515
FH2480P-XC	A2L/A1		230V 1~	1.78	0.43	0.66	1.26	645x515

PLATE WCCU

MHBP - MEDIUM AND HIGH BACK PRESSURE

MHBP - MEDIUM AND HIGH BACK PRESSURE							COOLING CHILLER LOOP APP		DRY UNIT LOOP APP		
MODEL	REFRIG. TYPE	REFRIG.	VOLTAGE (50Hz)	NOMINAL WATER FLOW RATE (m³/h)	MAX. VALVE PRESSURE DROP (bar)	MAX. EXCHANGER PRESSURE DROP (bar)	COOLING CAPACITY (W) -10°C EVAP. T° 7°C WATER INLET T°		COOLING CAPACITY (W) -10°C EVAP. T° 40°C WATER INLET T°		BASE DIMENSION L x W (mm)
							PERF. (W)	COP (W/W)	PERF. (W)	COP (W/W)	
R-449A											
AE4440Z-FZ	A1	R404A/	230V ~1	0.26	0.07	0.02	0.84	3.67	0.49	1.52	495x430
AE4450Z-FZ	A1	R448A/	230V ~1	0.35	0.12	0.04	1.09	3.67	0.64	1.50	495x430
AE4470Z-FZ	A1	R449A/	230V ~1	0.46	0.20	0.07	1.46	3.22	0.90	1.50	495x430
AJ4480P-FZ	A2L/A1	R452A	230V ~1	0.57	0.28	0.10	1.79	3.54	0.98	1.46	490x450
AJ4510P-FZ	A2L/A1	R404A/	230V ~1	0.70	0.13	0.15	2.26	3.77	1.31	1.62	490x450
AJ4513P-FZ	A2L/A1	R448A/	230V ~1	0.92	0.21	0.26	2.96	3.99	1.61	1.69	490x450
AJ4519P-FZ	A2L/A1	R449A/	230V ~1	1.21	0.35	0.20	3.86	3.67	2.20	1.52	610x515
FH4524P-XC	A2L/A1	R452A/	230V ~1	1.58	0.28	0.34	5.20	4.67	2.69	1.74	610x515
R-134a											
AE4440N-FZ	A2L/A1	R1234yf/ R134a/ R513A	230V ~1	0.23	0.06	0.02	0.72	3.00	0.49	1.62	495x430
AE4450N-FZ	A2L/A1		230V ~1	0.30	0.10	0.03	0.96	3.49	0.63	1.70	495x430
AJ4461N-FZ	A2L/A1		230V ~1	0.38	0.14	0.04	1.14	3.25	0.70	1.47	490x450
AJ4492N-FZ	A2L/A1		230V ~1	0.57	0.09	0.10	1.79	3.80	1.08	1.67	490x450
AJ4511N-FZ	A2L/A1		230V ~1	0.71	0.13	0.16	2.22	3.73	1.21	1.54	490x450
FH4525N-TX	A2L/A1		400V ~3N	1.30	0.20	0.23	4.44	4.88	2.42	2.00	610x515
FH4525N-XC	A2L/A1		230V ~1	1.30	0.20	0.23	4.26	4.50	2.47	1.92	610x515

LBP - LOW BACK PRESSURE

LBP - LOW BACK PRESSURE							COOLING CHILLER LOOP APP		DRY UNIT LOOP APP		
MODEL	RE- FRIG. TYPE	REFRIG.	VOLTAGE (50Hz)	NOMINAL MINIMUM WATER FLOW RATE (m³/h)	MAX. VALVE PRESSURE DROP (bar)	MAX. EXCHANGER PRESSURE DROP (bar)	COOLING CAPACITY (W) -30°C EVAP. T° 7°C WATER INLET T°		COOLING CAPACITY (W) -30°C EVAP. T° 40°C WATER INLET T°		BASE DIMENSIONS L x W (mm)
							PERF. (W)	COP (W/W)	PERF. (W)	COP (W/W)	
R-449A											
AE2425Z-FZ	A1	R404A/ R448A/ R449A/ R452A	230V ~1	0.32	0.10	0.03	0.56	1.88	0.30	0.86	495x430
AJ2440P-FZ	A2L/A1	R404A/ R448A/ R449A/ R452A/ R455A/ R454C	230V ~1	0.55	0.27	0.09	0.93	1.94	0.44	0.83	490x450
AJ2446P-FZ			230V ~1	0.66	0.12	0.13	1.16	2.00	0.57	0.87	490x450
AJ2446P-TX			400V ~3N	0.66	0.12	0.13	1.16	2.02	0.54	0.84	490x450
AJ2464P-FZ			230V ~1	0.87	0.18	0.23	1.48	1.86	0.75	0.82	490x450
AJ2464P-TX			400V ~3N	0.87	0.18	0.23	1.49	1.94	0.74	0.86	490x450
FH2480P-XC			230V ~1	1.52	0.26	0.32	2.63	2.13	1.20	0.93	610x515

