



TRANE®

Flex Series

Modular Air-cooled Chillers and Heat Pumps

Cooling Capacity 38 - 329 kW

Heating Capacity 47 - 354 kW



FLEX

IR Ingersoll Rand®

Modular air/water chillers and heat pumps units with axial fans and scroll compressors.



High EER and COP for modular applications

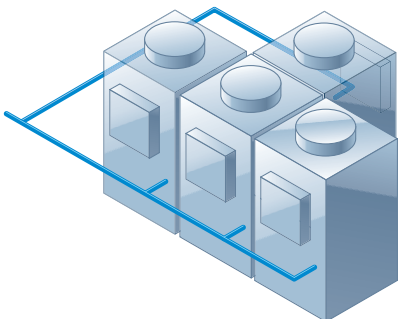
The range is made up of 18 basic modules. Up to 12 units can be combined into one system in order to reach the required capacity.

Range description

- **C:** chillers
- **H:** heat pumps
- **MC:** modular chillers
- **MH:** modular heat pumps

Unit description

- Scroll compressors.
- ECO-PROFILE axial fans statically and dynamically balanced.
- Water side plate heat exchanger with differential pressure switch and antifreeze protection electric heater.
- Air side heat exchanger high efficiency finned coils with seamless copper tubes expanded into corrugated aluminium.
- Condensing and evaporating pressure control with variable fans speed modulation.
- Microprocessor-based controller.
- Thermostatic expansion valve.
- Casing and panels in galvanised and painted steel.



Energy-saving versions

- **D:** Partial recovery stainless steel brazed plate type desuperheater, externally insulated.
- **R:** Total recovery stainless steel brazed type exchanger, externally insulated.

Acoustic versions

- **LN:** Low noise, including fan speed regulation and soundproof compressors jackets.
- **SL:** Super low noise, including: condensing control with variable fan speed modulation, oversized coils, muffler on the compressors delivery lines and soundproof box for the compressors area.

Hydraulic versions

- **B M A:** Hydraulic kit including 1 or 2 pumps, available head pressure (B) Low (150 kPa), (M) Medium (250 kPa), (A) High (450 kPa), expansion vessel.
- **SB SM SA:** Hydraulic kit including 1 pump, available head pressure (B) Low (150 Kpa), (M) Medium (250 Kpa), (A) High (450 Kpa), expansion vessel, buffer tank.
- **XB XM XA:** Hydraulic kit including 2 pumps, available head pressure (B) Low (150 Kpa), (M) Medium (250 Kpa), (A) High (450 Kpa), expansion vessel, buffer tank.

Options

- Hybrid smart cooling® (2 way modulating valve, brazed heat exchanger).
- Remote adjustable set point. ⁽¹⁾
- Electronic expansion valve.
- Power factor correction to $\cos \phi$ 0,91. ⁽²⁾
- Automatic circuit breakers for compressors.
- Automatic circuit breakers for fans.
- Over/under voltage + phase failure protection relay.
- Condensing control with variable fan speed modulation.

- Full inverter electronic fans.
- Soft starter.
- Low outdoor air temperature kit down to -10°C (in cooling mode only).
- Low outdoor air temperature kit down to -20°C (in cooling mode only).
- Compressors sound jackets.
- High static pressure fans, 100 Pa.
- Pre painted condensing coils.
- Epoxy coated condensing coils fins.
- Copper/copper condensing coils.
- BLYGOLD condensing coils.
- Gas gauges.
- Anti intrusion grilles.

Accessories

- Kit GENIUS, including remote key pad and connection cable. ⁽³⁾
- Remote display.
- Signal amplification card (distances more than 50 m).
- Flow switch.
- Automatic water filling.
- Water gauges.
- Rubber antivibration mounts.
- Spring antivibration mounts.
- Water strainer.
- Serial communication card RS485. ⁽⁴⁾

(1) Available in the standard temperature range.

(2) Phase correction will apply on each unit. The device will be provided loose with clamps for connection to the panel.

(3) For modular applications.

(4) Can only be used on a master unit (in case of combination) or on single stand-alone units (non-modular application).

Important: Stand-alone units cannot be converted to modular units on project sites due to different controllers and different electrical panel configurations. When selecting the first FLEX unit a choice must be made: stand-alone or (near future) multiple units application.

Advantages

Eco-profile fans

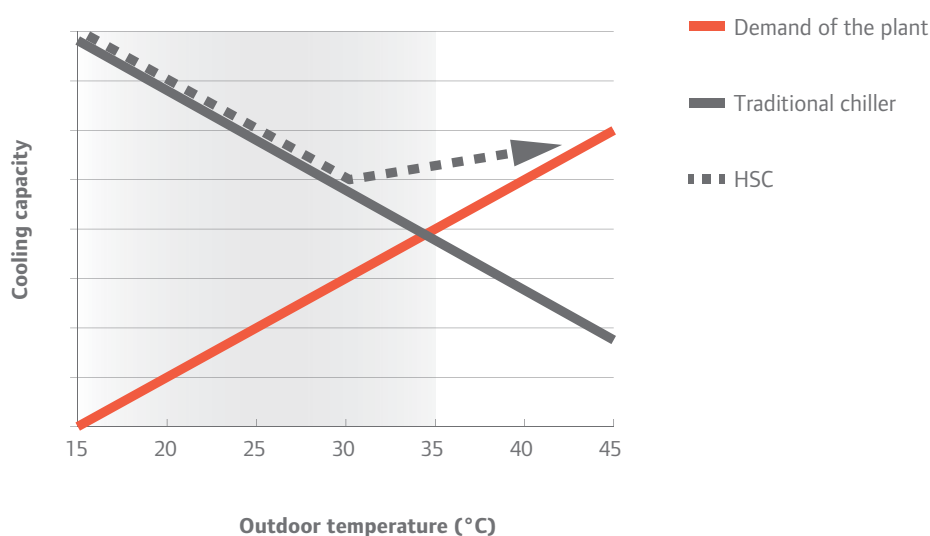
Due to the innovative profile, these fans ensure high efficiency with reduced power input and sound emissions.

HSC Hybrid Smart Cooling

High energy performances are guaranteed by the **HSC Hybrid Smart Cooling** system, covered by an international patent. Over certain outdoor air temperature values, water cooling is added to the air condensation. Electric power consumption remains the same, whereas the unit cooling capacity increases up to 30%, respecting perfectly the plant requirements. They have other exceptional advantages such as the refrigerant load charge reduction and a better corrosion resistance.



As outdoor air temperature rises, HSC cooling capacity increases

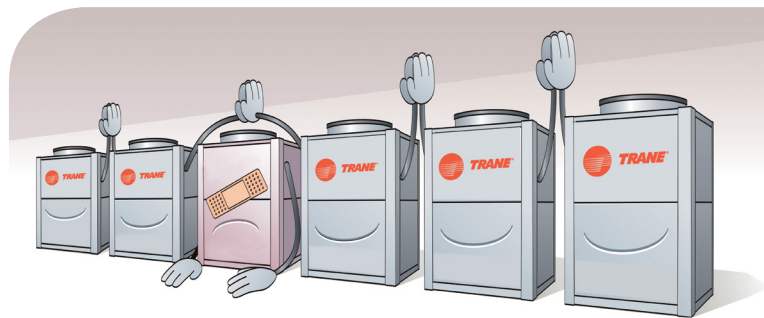


Non-stop continuous operation

The multiple units activation and the specially designed control system allows the system to always be reliable and operational.

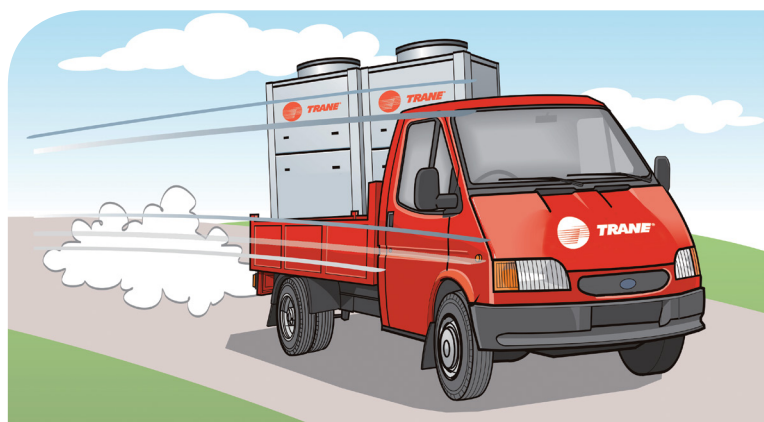
In case of failure, maintenance or repair of one system unit, the rest continue to work to ensure the reliability of the system.

In comparison with a packaged unit, the addition of just one module can guarantee the total power back up in case of failure.



Just in time system

The optimisation of the production processes and the advanced construction logic lead to a reduction of the construction times, respecting perfectly the plant requirements. They have other exceptional advantages such as the refrigerant load charge reduction and a better corrosion resistance.

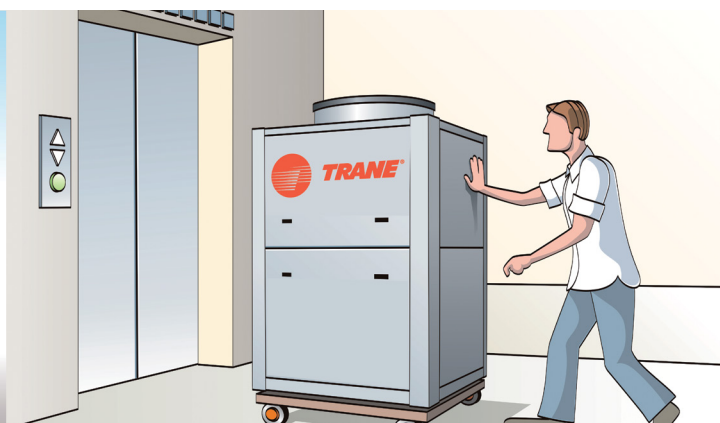
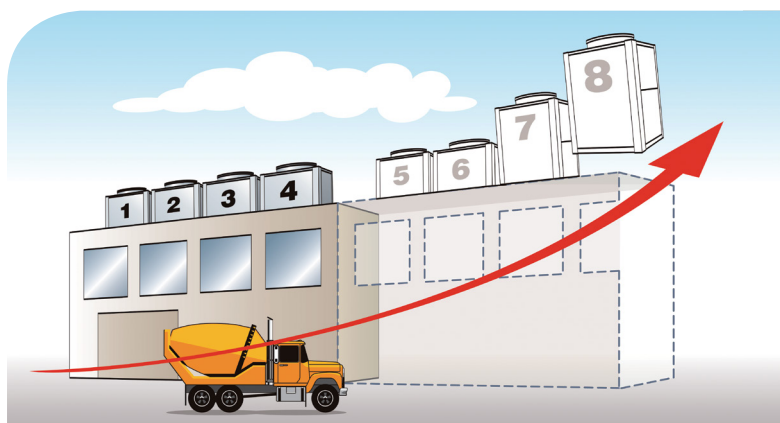


Easy to handle

Can be easily lifted and moved, allow to save money for crane and installation above all in historical buildings and city centers.

Flexible investment

The scalable system can be extended on site, in terms of capacity and features.



Chiller version

General data

Mod.	Vers.		140 Z	150 Z	155 Z	160 Z	170 Z	180 Z	190 Z	1110 Z	1120 Z	1130 Z	1140 Z	1150 Z	1160 Z	1190 Z	1200 Z	1220 Z	1250 Z	1300 Z
Cooling (1)																				
CC	C	kW	40.70	48.70	55.10	60.50	71.60	83.20	94.10	106	115	127	137	150	162	187	196	214	244	303
PI		kW	16.40	18.90	21.30	24.90	28.30	31.30	37.10	41.90	42.90	48.90	52.90	60.10	62.70	71.60	81.80	80.80	95.30	123
EER			2.48	2.57	2.58	2.43	2.53	2.66	2.54	2.53	2.67	2.60	2.59	2.50	2.59	2.61	2.40	2.65	2.56	2.46
ESEER			3.55	3.75	3.83	3.87	3.56	3.72	3.87	3.99	4.14	4.11	3.88	3.71	3.78	3.97	3.45	3.91	3.63	3.41
EC		E	D	D	D	E	D	D	D	D	D	D	D	D	D	D	E	D	D	E
WF		m³/h	7	8.40	9.50	10.40	12.30	14.30	16.20	18.20	19.70	21.90	23.60	25.90	27.90	32.10	33.80	36.80	41.90	52
WPD		kPa	48.50	52.20	45.10	54.40	56.60	76.50	63.10	54.80	64	58	67.30	50.40	52.50	56.90	62.80	56.40	60.10	81.40
RCN		N.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN		N.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3
CT		Scroll																		
ET		Plate																		
SPL		dB(A)	46	47	47	48	50	53	54	54	54	54	55	55	55	57	56	59	57	60
SPWL		dB(A)	78	79	79	80	82	85	86	86	86	86	87	87	87	89	88	91	89	92
SPL	LN	[dB(A)]	43	44	44	45	47	50	51	51	51	51	52	52	52	54	53	56	54	58
SPWL	LN	[dB(A)]	75	76	76	77	79	82	83	83	83	83	84	84	84	86	85	88	86	89
SPL	SL	[dB(A)]	41	42	42	43	45	48	49	49	49	49	50	50	50	52	51	54	52	55
SPWL	SL	[dB(A)]	73	74	74	75	77	80	81	81	81	81	82	82	82	84	83	86	84	87
EPS		V/Ph/Hz	400/3+n/50																	

(1) Outdoor air temperature 35°C - chilled water temperature in/out 12/7°C. Technical data in accordance to EN 14511.

CC Cooling capacity

HC Heating capacity

PI Total power input

EER Total EER 100%

COP Total COP 100%

ESEER European seasonal energy efficiency ratio

EC Efficiency cooling

WF Water flow

WPD Water pressure drop

RCN Number of refrigerant circuits

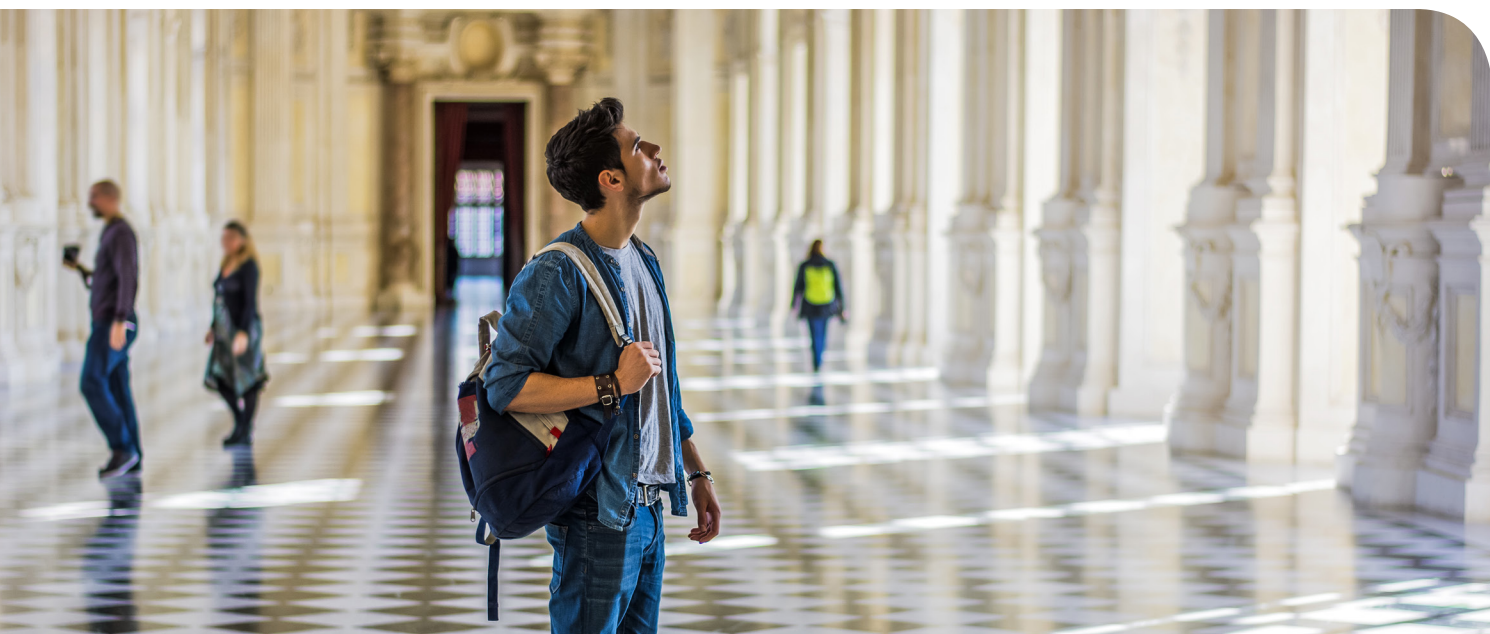
CN Number of compressors

CT Type of compressors

SPL Sound pressure level (calculated according to ISO 3744 at 10 m distance from the unit)

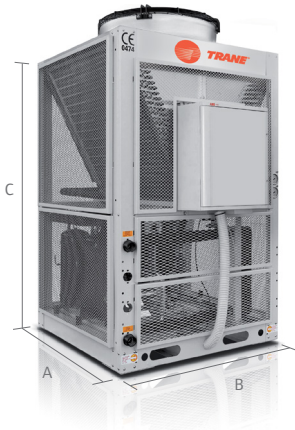
SPWL Sound power level measurements made in compliance with ISO 9614 for Eurovent certified units, in compliance with ISO 3744 for non-certified units.

EPS Electrical power supply



Dimensions and weights

Mod.	Vers.		140 Z	150 Z	155 Z	160 Z	170 Z	180 Z	190Z	1110 Z	1120 Z	1130 Z	1140 Z	1150 Z	1160 Z	1190 Z	1200 Z	1220 Z	1250 Z	1300 Z
A		mm	1460	1460	1460	1460	2558	2558	2558	2558	2558	2558	3599	3599	3599	3599	3599	2558	2558	3530
B		mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	2200	2200	2260
C		mm	2025	2025	2025	2025	2090	2090	2090	2090	2090	2090	2205	2205	2205	2205	2205	2205	2205	2400
+A	SB-SM-SA-XB-XM-XA	mm	500	500	500	500	500	500	500	500	500	500	-	-	-	-	-	-	-	-
SW	C	kg	473	488	503	509	699	819	829	892	915	922	1199	1236	1299	1343	1453	1541	1752	2351
SW	CM	kg	451	462	472	477	649	768	770	824	846	855	1121	1161	1220	1254	1360	-	-	-
SW	C LN	kg	495	510	525	531	727	847	856	919	942	950	1226	1263	1326	1370	1494	1568	1794	2393
SW	C SL	kg	548	557	584	590	799	921	932	992	1042	1051	1321	1357	1422	1454	1634	1688	1951	2605
+SW (1)	B1	kg	30	30	30	30	38	38	38	38	40	40	40	52	52	58	58	58	62	62
+SW (1)	M1	kg	37	37	37	37	46	46	46	46	49	49	49	64	64	72	72	72	75	75
+SW (1)	A1	kg	-	-	-	-	-	-	-	-	-	-	61	78	78	88	88	88	93	93
+SW (1)	B2	kg	78	78	78	78	98	98	98	98	104	104	104	135	135	150	150	150	161	161
+SW (1)	M2	kg	96	96	96	96	119	119	119	119	127	127	127	166	166	187	187	187	195	195
+SW (1)	A2	kg	-	-	-	-	-	-	-	-	-	-	158	202	202	228	228	228	241	241
+SW (1)	SB	kg	95	95	95	95	103	103	103	103	105	105	100	112	112	118	118	118	122	142
+SW (1)	SM	kg	102	102	102	102	111	111	111	111	114	114	109	124	124	132	132	132	135	155
+SW (1)	SA	kg	-	-	-	-	-	-	-	-	-	-	121	138	138	148	148	148	153	173
+SW (1)	XB	kg	143	143	143	143	163	163	163	163	169	169	164	195	195	210	210	210	221	241
+SW (1)	XM	kg	161	161	161	161	184	184	184	184	192	192	187	226	226	247	247	247	255	275
+SW (1)	XA	kg	-	-	-	-	-	-	-	-	-	-	218	262	262	288	288	288	301	321



SW shipping weight
+SW extra weight



Heat pump version

General data

Mod.	Vers.		140 Z	145 Z	150 Z	165 Z	170 Z	180 Z	190 Z	1105 Z	1120 Z	1130 Z	1150 Z	1160 Z	1180 Z	1190 Z	1200 Z	1230 Z	1280 Z
Cooling (1)																			
CC	H	kW	38.40	43.80	47.50	65	72.60	82.90	89.40	105	117	132	150	160	176	189	202	230	286
PI		kW	16.50	17.70	20.60	25	26.90	30.80	38.40	44	49	53	59	63	72	82	81	96	123
EER			2.33	2.48	2.31	2.60	2.70	2.69	2.33	2.41	2.39	2.49	2.53	2.54	2.45	2.29	2.48	2.40	2.32
ESEER			3.33	3.58	3.59	3.86	3.70	3.72	3.61	3.81	3.82	4.01	3.65	3.65	3.72	3.28	3.68	3.42	3.22
EC		E	E	E	D	C	D	E	E	E	E	D	D	D	E	F	E	E	E
WF		m³/h	6.60	7.50	8.20	11.20	12.50	14.30	15.40	18	20.20	22.80	25.70	27.50	30.30	32.40	34.70	39.50	49.20
WPD		kPa	43	42.30	49.80	30	58.20	48.90	56.90	53.60	61	63	50	50.90	50.50	58	50	53.40	73.20
Heating (2)																			
HC	H	kW	47	52	59	74	88	97	109	128	142	158	176	189	215	234	244	280	354
PI		kW	14.60	15.60	18.10	20.90	29.10	28.50	33.30	38.10	43	46.30	54.20	57.90	65	71.70	73.4	86.40	109
COP			3.23	3.33	3.29	3.53	3.01	3.40	3.27	3.35	3.31	3.40	3.25	3.27	3.30	3.27	3.32	3.24	3.24
Pdesign			38.70	42.50	48.50	60.10	72.30	79.70	89.40	105.20	117.10	130.30	146.20	157.60	178	193.80	201.90	232.80	293.80
SCOP			3.43	3.54	3.48	3.77	3.19	3.59	3.49	3.56	3.54	3.65	3.47	3.48	3.51	3.54	3.51	3.50	3.41
ns		%	134	139	136	148	125	140	136	140	139	143	136	136	138	139	138	137	134%
Energy class			A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
WF		m³/h	8.10	8.90	10.20	12.70	15.10	16.70	18.70	22	24.50	27.10	30.30	32.60	36.90	40.30	41.90	48.20	60.90
WPD		kPa	65.10	59.60	77.80	38.80	84.90	66.90	84.40	79.70	90	89.10	69.20	71.30	75	89.60	73	79.20	112.10
RCN		N.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN		N.	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3
CT		Scroll																	
ET		Plate																	
SPL		dB(A)	46	47	48	47	51	53	54	54	54	55	55	55	57	56	59	57	60
SPWL		dB(A)	78	79	79	79	83	85	86	86	86	87	87	87	89	88	91	89	92
SPL	LN	[dB(A)]	43	44	45	44	48	50	51	51	51	52	52	52	54	53	56	54	57
SPWL	LN	[dB(A)]	75	76	76	76	80	82	83	83	83	84	84	84	86	85	88	86	89
SPL	SL	[dB(A)]	41	42	43	42	46	48	49	49	49	50	50	50	52	54	54	52	55
SPWL	SL	[dB(A)]	73	74	74	74	78	80	81	81	81	82	82	82	84	86	86	84	87
EPS		V/Ph/Hz	400/3+n/50																

(1) Outdoor air temperature 35°C - chilled water temperature in/out 12/7°C. Technical data in accordance to EN 14511.

(2) Outdoor air temperature 7°C - 90% U.R. - hot water temperature in/out 40/45°C). Technical data in accordance to EN 14511.

CC Cooling capacity

HC Heating capacity

PI Total power input

EER Total EER 100%

COP Total COP 100%

SCOP Seasonal Coefficient of Performance rating at low temperature conditions. Outdoor air temperature 7°C dry bulb/6°C wet bulb and hot water temperature in/out: 30°C/35°C

ESEER European seasonal energy efficiency ratio

EC Efficiency class (ecodesign)

WF Water flow

WPD Water pressure drop

RCN Number of refrigerant circuits

CN Number of compressors

CT Type of compressors

SPL Sound pressure level (calculated according to ISO 3744 at 10 m distance from the unit)

SPWL Sound power level measurements made in compliance with ISO 9614 for Eurovent certified units, in compliance with ISO 3744 for non-certified units.

EPS Electrical power supply

Dimensions and weights

Mod.	Vers.		140 Z	145 Z	150 Z	165 Z	170 Z	180 Z	190 Z	1105 Z	1120 Z	1130 Z	1150 Z	1160 Z	1180 Z	1190 Z	1200 Z	1230 Z	1280 Z
A		mm	1460	1460	1460	1460	2558	2558	2558	2558	2558	2558	3599	3599	3599	3599	2558	2558	3530
B		mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	2200	2200	2260
C		mm	2025	2025	2025	2025	2090	2090	2090	2090	2090	2090	2205	2205	2205	2205	2205	2205	2400
+A	SB-SM-SA-XB-XM-XA	mm	500	500	500	500	500	500	500	500	500	500	-	-	-	-	-	-	-
SW	H	kg	507	522	535	587	809	907	889	961	966	1038	1333	1387	1406	1514	1620	1830	2440
SW	HM	kg	483	494	504	536	804	843	853	886	888	955	1250	1299	1309	1415	-	-	-
SW	H LN	kg	529	544	557	609	837	935	917	988	994	1065	1360	1414	1434	1556	1647	1872	2482
SW	H SL	kg	567	583	596	647	886	984	966	1038	1043	1115	1410	1464	1483	1630	1735	1945	2556
+SW (1) B1		kg	30	30	30	38	38	38	38	40	40	40	52	52	58	58	58	62	62
+SW (1) M1		kg	37	37	37	46	46	46	46	49	49	49	64	64	72	72	72	75	75
+SW (1) A1		kg	-	-	-	-	-	-	-	-	-	-	78	78	88	88	88	93	93
+SW (1) B2		kg	78	78	78	98	98	98	98	104	104	104	135	135	150	150	150	161	161
+SW (1) M2		kg	96	96	96	119	119	119	119	127	127	127	166	166	187	187	187	195	195
+SW (1) A2		kg	-	-	-	-	-	-	-	-	-	-	202	202	228	228	228	241	241
+SW (1) SB		kg	30	30	30	103	38	38	38	40	40	105	52	52	58	58	58	62	142
+SW (1) SM		kg	37	37	37	111	46	46	46	49	49	114	64	64	72	72	72	75	155
+SW (1) SA		kg	-	-	-	-	-	-	-	-	-	-	138	138	148	148	148	153	173
+SW (1) XB		kg	78	78	78	163	98	98	98	104	104	169	135	135	150	150	150	161	241
+SW (1) XM		kg	96	96	96	184	119	119	119	127	127	192	166	166	187	187	187	195	275
+SW (1) XA		kg	-	-	-	-	-	-	-	-	-	-	262	262	288	288	288	301	321



SW shipping weight
+SW extra weight



Chiller for high ambient applications

General data

Mod.	Vers.		140 Z	150 Z	160 Z	170 Z	180 Z	190 Z	1100 Z	1110 Z	1120 Z	1140 Z	1150 Z	1160 Z	1170 Z	1200 Z	1220 Z	1230 Z	1260 Z	1320 Z
Cooling (1)																				
CC	C	kW	44.50	52.70	59.30	67.50	77.50	87.70	102	114	120	135	145	163	172	199	222	227	260	329
PI		kW	15.70	18.40	20.90	24.50	28.40	31.10	35.60	40.70	42.30	47	52	57.60	62.70	70.50	80.30	79	94.30	118
EER			2.83	2.86	2.84	2.76	2.73	2.82	2.87	2.80	2.83	2.88	2.78	2.83	2.75	2.82	2.76	2.87	2.76	2.78
ESEER			3.85	4.02	4.08	4.20	3.71	3.94	4.15	4.21	3.63	4.03	4.05	4.01	3.96	4.19	3.80	4.13	3.91	3.81
EC		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
WF		m³/h	7.70	9.10	10.20	11.60	13.30	15.10	17.60	19.60	20.60	23.30	24.90	28	29.60	34.20	38.10	39	44.80	56.50
WPD		kPa	29.50	41.30	38.80	32.40	42.80	37.50	50.90	46.70	51.50	65.60	75	43.20	48.40	48.60	49.60	51.90	46.60	95.70
RCN		N.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN		N.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3
CT		Scroll																		
ET		Plate																		
SPL		dB(A)	46	47	47	48	50	53	54	54	54	55	55	55	55	57	56	59	57	60
SPWL		dB(A)	78	79	79	80	82	85	86	86	86	87	87	87	87	89	88	91	89	92
SPL	LN	[dB(A)]	43	44	44	45	47	50	51	51	52	52	52	52	52	54	54	56	54	57
SPWL	LN	[dB(A)]	75	76	76	77	79	82	83	83	84	84	84	84	84	86	86	88	86	89
SPL	SL	[dB(A)]	41	42	42	43	45	48	49	49	50	50	50	50	50	51.80	52	54	52	55
SPWL	SL	[dB(A)]	73	74	74	75	77	80	81	81	82	82.1	82	82	82	84	84	86	84	87
EPS		V/Ph/Hz	400/3+n/50																	

(1) Outdoor temperature 35°C - chilled water temperature in/out 12/7°C. Technical data in accordance to EN 14511.

(2) Outdoor temperature 35°C - evaporating temperature 5°C

CC Cooling capacity

HC Heating capacity

PI Total power input

EER Total EER 100%

COP Total COP 100%

ESEER European seasonal energy efficiency ratio

EC Efficiency cooling

WF Water flow

WPD Water pressure drop

RCN Number of refrigerant circuits

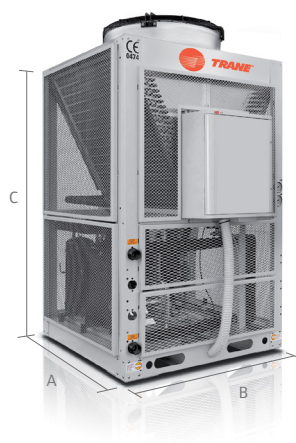
CN Number of compressors

CT Type of compressors

SPL Sound pressure level (calculated according to ISO 3744 at 10 m distance from the unit)

SPWL Sound power level measurements made in compliance with ISO 9614 for Eurovent certified units, in compliance with ISO 3744 for non-certified units.

EPS Electrical power supply



SW shipping weight

+SW extra weight

Dimensions and weights

Mod.	Vers.		140 Z	150 Z	160 Z	170 Z	180 Z	190 Z	1100 Z	1110 Z	1120 Z
A	C	mm	1460	1460	1460	1460	2558	2558	2558	2558	3599
A	C LN - C SL	mm	1460	1460	2558	2558	2558	2558	2558	2558	3599
B	C	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100
B	C LN - C SL	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100
C	C	mm	2025	2025	2025	2025	2090	2090	2090	2090	2205
C	C LN - C SL	mm	2025	2025	2090	2090	2090	2090	2090	2090	2205
+A	SB-SM-SA-XB-XM-XA	mm	500	500	500	500	500	500	500	500	-
SW	C	kg	491	503	531	542	738	850	870	920	1201
SW	C LN	kg	513	525	717	728	765	877	897	990	1228
SW	C SL	kg	567	570	771	782	839	942	988	1039	1284
+SW (1)	B1	kg	30	30	30	38	38	38	38	40	40
+SW (1)	M1	kg	37	37	37	46	46	46	46	49	49
+SW (1)	A1	kg	-	-	-	-	-	-	-	-	61
+SW (1)	B2	kg	78	78	78	98	98	98	98	104	104
+SW (1)	M2	kg	96	96	96	119	119	119	119	127	127
+SW (1)	A2	kg	-	-	-	-	-	-	-	-	158
+SW (1)	SB	kg	95	95	95	103	103	103	103	105	100
+SW (1)	SM	kg	102	102	102	111	111	111	111	114	109
+SW (1)	SA	kg	-	-	-	-	-	-	-	-	121
+SW (1)	XB	kg	143	143	143	163	163	163	163	169	164
+SW (1)	XM	kg	161	161	161	184	184	184	184	192	187
+SW (1)	XA	kg	-	-	-	-	-	-	-	-	218

Mod.	Vers.		1140 Z	1150 Z	1160 Z	1170 Z	1200 Z	1220 Z	1230 Z	1260 Z	1320 Z
A	C	mm	3599	3599	3599	3599	3599	2558	2558	2558	3530
A	C LN - C SL	mm	3599	3599	3599	3599	2558	2558	2558	3530	3530
B	C	mm	1100	1100	1100	1100	1100	2200	2200	2200	2260
B	C LN - C SL	mm	1100	1100	1100	1100	2200	2200	2200	2260	2260
C	C	mm	2205	2205	2205	2205	2205	2205	2205	2205	2400
C	C LN - C SL	mm	2205	2205	2205	2205	2205	2205	2205	2350	2400
+A	SB-SM-SA-XB-XM-XA	mm	-	-	-	-	-	-	-	-	-
SW	C	kg	1238	1263	1304	1331	1414	1674	1664	1853	2500
SW	C LN	kg	1266	1306	1362	1373	1582	1799	1687	2384	2608
SW	C SL	kg	1291	1402	1443	1469	1674	1873	1775	2458	2747
+SW (1)	B1	kg	40	52	52	58	58	58	62	62	62
+SW (1)	M1	kg	49	64	64	72	72	72	75	75	75
+SW (1)	A1	kg	78	78	88	88	88	93	93	93	93
+SW (1)	B2	kg	104	135	135	150	150	150	161	161	161
+SW (1)	M2	kg	127	166	166	187	187	187	195	195	195
+SW (1)	A2	kg	202	202	228	228	228	241	241	241	241
+SW (1)	SB	kg	100	112	112	118	118	118	122	122 / 162 (2)	162
+SW (1)	SM	kg	109	124	124	132	132	132	135	135 / 175 (2)	175
+SW (1)	SA	kg	138	138	148	148	148	153	153	153 / 193 (2)	193
+SW (1)	XB	kg	164	195	195	210	210	210	221	221 / 261 (2)	261
+SW (1)	XM	kg	187	226	226	247	247	247	255	255 / 295 (2)	295
+SW (1)	XA	kg	262	262	288	288	288	301	301	301 / 341 (2)	341



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