City™ RTSF Water-to-Water Heat Pump

Cooling capacity: 180-385 kW

Heating capacity: 195-430 kW

R1234ze R515B AFD up to 80°C

TRANE TECHNOLOGIES

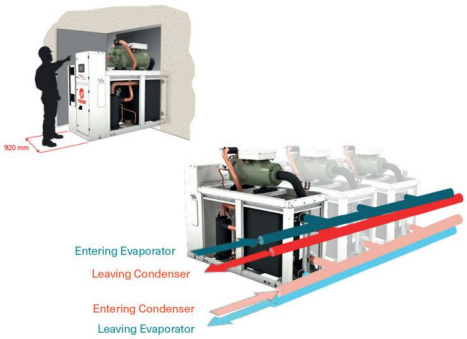
City™ RTSF Water-to-Water Heat Pump

At a Glance:

- 99.5% reliability rate with screw compressor technology and Adaptive Frequency™ Drive as standard
- Fully optimized for HFO R1234ze (
- Minimized refrigerant charge with stainless steel plate heat exchangers
- Compact and modular, they particularly fit in restricted spaces. 920 mm width only
- Ideal modular HFO solution for tight spaces
- Heating up to 80°C; source temperature from -12C to +30C

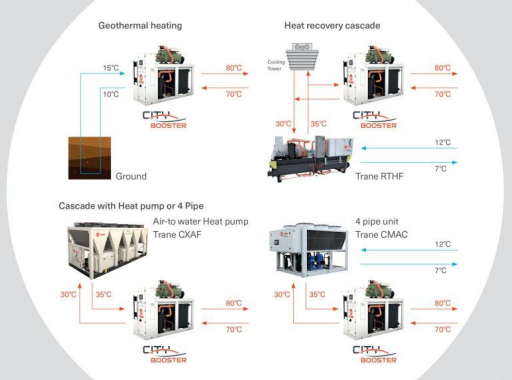
Sustainable and efficient

The City RTSF has been designed to reduce environmental impact. This is a low global warming potential solution with industry leading efficiencies for capacities below 400 kW.
The City RTSF features low GWP (



Compact and modular

Modern cities often present challenges when it comes to easy transportation of large units into, onto or next to buildings. The City has been specially engineered for restricted spaces, and easy installation.



Wide range of applications

The City chiller satisfies any application and covers a wide spectrum of operating conditions:

- City Comfort prioritizes performance and sustainability. Efficiency is optimized for moderate comfort applications in cooling or heating up to 50°C, or industrial process applications at positive temperatures.

- City Process is a highly sustainable solution (GWP < 1) with safe operation. Efficiency has been optimized for freezing industrial brine process applications. City Process delivers hot water between 10°C and 80°C, with source temperatures from -12°C to +5°C.

- City Booster optimizes operation and efficiency to deliver hot water between 50°C and 80°C, with source temperatures from +5°C to +30°C. City Booster offers a unique opportunity to move to renewable energy heating.

Trane expertise and experience

Trane industry-leading compressor: Direct drive, low speed screw AFD driven for premium efficiency, perfect load matching and unequalled reliability and durability.

Range description

- Heating: From -12 to 30°C on the evaporator side and up to +80°C on the condenser side
- City chillers are available in six different cooling capacities with a number of options such as sound attenuation panels (up to -9 dB(A)).

Technical specifications

Unit type	Water-to-water
Operating mode	Cooling only | Heat pump
Cooling capacity	180-385 kW
Heating capacity	195-430 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R1234ze | R515B
Energy saving	Adaptive Frequency™ Drive
Compressor	Screw
Data protocols	Lonmark | Bacnet | Modbus

RTSF G - Heat pump

	Pc (1) kW	EER (1)	SEER (2)	Ph (3) kW	COP (3)	Ph (4) kW	COP (4)	SCOP (4)	LwO (5) dB(A)	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTSF 050 G	176,0	4,65	5,98	186,6	4,40	173,9	3,63	4,63	83	2240	900	1940	1610
RTSF 060 G	212,0	4,66	6,00	223,5	4,40	208,5	3,64	4,70	93	2240	900	1940	1675
RTSF 070 G	245,0	4,87	6,53	260,6	4,60	244,1	3,80	4,88	98	2240	900	1960	1900
RTSF 090 G	295,0	4,88	6,60	313,2	4,57	294,0	3,77	4,93	98	2240	900	1960	1985
RTSF 100 G	341,0	4,59	6,63	371,9	4,42	351,0	3,71	4,99	98	2240	900	1960	1985
RTSF 110 G	385,0	4,34	6,43	428,4	4,25	405,5	3,60	5,08	94	2240	900	1960	1985

Pc: Cooling capacity
Ph: Heating capacity
LwO: A-weighted sound power level outside
H: Height
EER: Energy Efficiency Ratio (cooling)
COP: Coefficient Of Performance (heating)
L: Length
OW : Operating Weight
SEER: Seasonal Energy Efficiency Ratio
SCOP: Seasonal Coefficient Of Performance
W: Width

RTSF G - Heating Only

	Ph (1) kW	COP (1)	Ph (2) kW	COP (2)	SCOP (2)	Ph (3) kW	COP (3)	LwO (4) dB(A)	L (5) mm	W (5) mm	H (5) mm	OW (5) kg
RTSF 050 G	186,6	4,40	173,9	3,63	4,63	158,2	2,85	83	2240	900	1940	1610
RTSF 060 G	223,5	4,40	208,5	3,64	4,70	190,3	2,87	93	2240	900	1940	1675
RTSF 070 G	260,6	4,60	244,1	3,80	4,88	225,7	3,01	98	2240	900	1960	1900
RTSF 090 G	313,2	4,57	294,0	3,77	4,93	271,8	2,99	98	2240	900	1960	1985
RTSF 100 G	371,9	4,42	351,0	3,71	4,99	327,0	2,98	98	2240	900	1960	1985
RTSF 110 G	428,4	4,25	405,5	3,60	5,08	378,9	2,91	94	2240	900	1960	1985

Ph: Heating capacity
LwO: A-weighted sound power level outside
H: Height
COP: Coefficient Of Performance (heating)
L: Length
OW : Operating Weight
SCOP: Seasonal Coefficient Of Performance
W: Width

(1): Evaporator water temperature in/out 10/7°C - Condenser water temperature in/out 40/45°C
(2): Ecodesign rating for Heat pumps. Source water temperature in/out 10/7°C and hot water temperature in/out 47/55°C. SEER/ηs,h as defined in REGULATION (EU) N°813/2013 of 2 August 2013
(3): Evaporator water temperature in/out 10/7°C - Condenser water temperature in/out 55/65°C (EN 14511:2022)
(4): According to ISO 9614:2009. Eurovent conditions, with 1pW reference sound power (without accessories)
(5): Basic unit without accessories

Trane, leaders in HVAC technology, services and energy solutions.

Our mission is to get it right for our customers and the climate.

Innovative thermal management systems

For all commercial and industrial applications, we offer a broad portfolio of HVAC solutions including heat pumps, chillers, multi-pipe units, packaged rooftops, air handling units and water terminals.

Partner with Trane

Lifecycle Management

From start-up services to full turn-key solutions, all the way to disposal and recycling.

Modernize and optimize

A wide array of solutions to ensure your HVAC equipment is always running at its peak performance, including technology upgrades.

Digital Services

Avoid unexpected cost and downtime thanks to Trane's connected service agreements.

Rental Services

An extensive and modern fleet, for short and long-term rental. Contact our experts for a quote: rent-trane.com