

XStream™ Excellent GVWF Water-Cooled Chiller



Cooling capacity: 350-2530 kW

Heating capacity: -----

- High speed centrifugal compressor with magnetic bearings
- Industry-leading part load and full load efficiencies
- Double refrigerant circuit
 - Single refrigerant circuit (GVWF 115 / 140 XSE G)
- Trane patented flooded evaporator
- Ideal for energy efficient and demanding comfort or industrial applications.
- GVWF 620 XSE G specially optimized for data center applications:
 - SEER = 10.43
 - Evaporator leaving temp up to 30°C
 - Options: Fast restart time and connection to UPS



Outstanding energy efficiency

The Trane XStream™ series design has been driven by our commitment to achieve the lowest energy consumption. Units deliver market-leading part load and full load efficiency performance.

Low energy consumption and enhanced efficiency are achieved with Trane high speed centrifugal compressor:

- Permanent magnet motor
- Oil free and silent operation thanks to frictionless magnetic levitation bearings
- Integrated Variable Frequency Drive
- Soft starter module
- Only one moving part

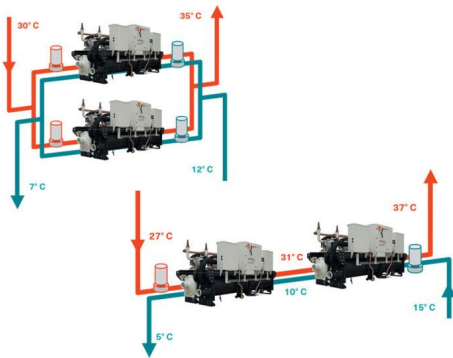


Excellence is standard on all models

With its wide capacity range up to 2.5 MW and industry leading part load and full load efficiencies, XStream eXcellent chillers are suited for any critical environments.

Innovative solutions are standard on all models:

- Multiple compressors (1, 2, 3 or 4)
- Double refrigerant circuit (Single for GVWF 115 / 140 XSE G)
- Economizer circuit
- EMC filter to avoid harmonic transfer to compressor(s)



Multiple chiller plant design

The overall GVWF unit efficiency can be enhanced by using the Series counterflow design, an alternative chiller layout to the conventional parallel piped configuration.

This layout provides the opportunity for:

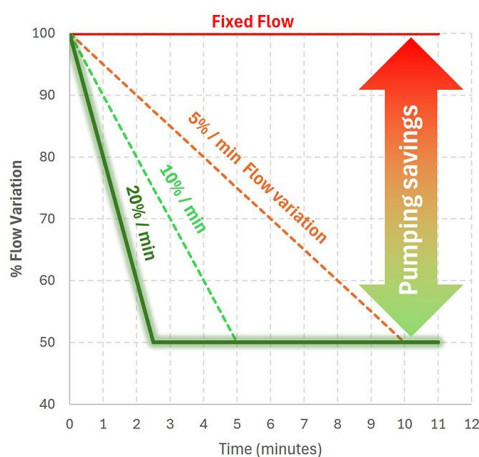
- Lower chilled water design temperature with larger ΔT
- Reduced design flow
- Installation and operational cost savings by using fewer installed pumps and valves, reduced pipe diameters and chiller downsizing
- Maximized system efficiency
- Continuous temperatures allow better stability of controls.

Combining series configuration with Variable Primary Flow (VPF) makes it possible to increase system efficiency even further.

Variable Primary Flow (VPF) capabilities

VPF systems provide building owners with multiple cost savings derived directly from pump operation. The XStream series is designed to make VPF easy to use:

- The evaporator on the GVWF XStream series can run safely with up to 50% water flow reduction.
- The microprocessor and capacity control algorithms are designed to handle a maximum of 20% change in water flow rate per minute.
- With the help of a Trane analysis tool, you can determine whether the anticipated energy savings justify the use of VPF in a particular application.



Range description

- Operating Conditions: Comfort cooling - From +5 to 20°C on the evaporator side and up to 55°C on the condenser side.

GVWF XSE G up to 30°C on the evaporator side and up to 63°C on the condenser side.

- GVWF packaged chillers are available in 34 different models with four refrigerants.
- GVWF G | GVWF XSE G: R1234ze/R515B — GVWF: R134a/R513A

Technical specifications

Cooling capacity	350-2530 kW
Heating capacity	-----
Eurovent certification	●
ErP Certification	●
Refrigerants	R1234ze R513A R134a R515B
Operating mode	Cooling only
Energy saving	Adaptive Frequency™ Drive
Compressor	Centrifugal High speed centrifugal with magnetic bearing

Product data

GVWF XSE G R1234ze

	Max Pc (1) kW	Pc (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
GVWF 115 XSE G	415	350,0	5,35	9,43	97	2863	1127	1943	2172
GVWF 140 XSE G	516	429,0	5,26	9,58	94	2863	1127	1975	2453
GVWF 230 XSE G	821	680,0	5,23	8,53	100	3476	1125	1920	3400
GVWF 280 XSE G	1048	868,0	5,45	10,13	97	5142	1213	2092	4229
GVWF 345 XSE G	1221	1038,0	5,24	9,88	102	4718	1964	2032	4304
GVWF 460 XSE G	1652	1404,0	5,26	9,85	103	4779	1793	2135	5556
GVWF 540 XSE G	1950	1658,0	5,38	10,25	102	5445	2140	2315	8163
GVWF 620 XSE G	2160	1836,0	5,44	10,43	100	5445	2140	2315	8239

Max Pc: Maximum Cooling Capacity (kW)
SEER: Seasonal Energy Efficiency Ratio
W: Width

Pc: Cooling capacity
LwO: A-weighted sound power level outside
H: Height

EER: Energy Efficiency Ratio (cooling)
L: Length
OW : Operating Weight

(1): Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C (EN 14511:2022)

(2): Ecodesign rating for comfort chillers. Source water temperature in/out 30/35°C and evaporator water temperature in/out 12/7°C. SEER as defined in REGULATION (EU) N° 2016/2281 of 20 December 2016

(3): According to ISO 9614:2009. Eurovent conditions, with 1pW reference sound power (without accessories)

(4): Basic unit without accessories

GVWF G R1234ze

	Max Pc (1) kW	Pc (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
GVWF 135 G	502	425,0	5,08	8,05	86	2976	1125	1920	2133
GVWF 160 G	595	505,0	5,06	8,00	88	2976	1125	1920	2285
GVWF 185 G	689	585,0	5,16	8,05	89	2976	1125	1920	2424
GVWF 375 G	1379	1171,0	5,64	9,23	91	4804	1800	2135	5002

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(4): Basic unit without accessories

GVWF R134a

	Max Pc (1) kW	Pc (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
GVWF 190	698	593,0	4,98	8,10	87	2976	1125	1920	2311
GVWF 215	838	711,0	5,02	8,30	88	2976	1125	1920	2808
GVWF 260	977	829,0	5,13	8,13	89	2976	1125	1920	3018
GVWF 300	1052	893,0	5,35	8,33	92	3476	1125	1920	3367
GVWF 325	1215	1031,0	5,59	9,13	96	4730	1700	2032	4094
GVWF 390	1388	1178,0	5,71	9,35	99	4804	1800	2135	4954
GVWF 275	1054	895,0	5,27	9,10	88	4730	1700	2032	4110
GVWF 320	1184	1005,0	5,18	8,98	89	4730	1700	2032	4102
GVWF 370	1420	1206,0	5,60	9,45	95	4804	1800	2135	5177
GVWF 380	1446	1227,0	5,32	9,13	91	4730	1700	2032	4317
GVWF 410	1684	1430,0	5,58	9,23	96	4804	1800	2135	5177
GVWF 420	1583	1344,0	5,37	9,18	93	4730	1700	2032	4317
GVWF 480	1763	1497,0	5,47	9,20	96	4804	1800	2135	5177
GVWF 590	1973	1641,0	5,39	8,98	100	4804	1800	2135	8076
GVWF 515	1933	2125,0	4,98	8,78	92	4804	1800	2135	5401
GVWF 570	2126	1860,0	5,52	9,50	96	5245	2140	2315	5574
GVWF 695	2349	1995,0	5,65	9,55	99	5445	2140	2315	8263
GVWF 760	2529	2526,0	5,36	8,85	101	5445	2140	2315	8263

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(4): Basic unit without accessories

Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.



Read more <https://trane.eu/rental>

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.eu or tranetechnologies.com.