



Flex Air-Cooled Chiller

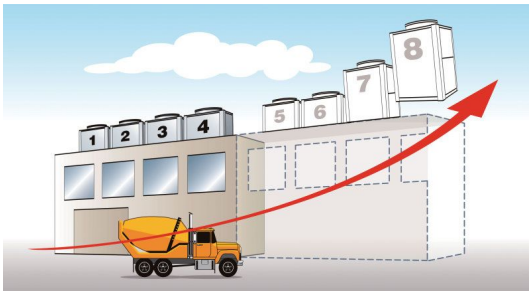
Cooling capacity: 87-164 kW



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TECHNOLOGIES

At a Glance:

- Tandem scroll compressors and EC fans, coupled with micro-channel condensing coils: ensures maximum efficiency and system flexibility. Size 026 features inverter-driven scroll compressor.
- Scalable system: ability to connect up to six Flex units of similar frames to one single Multimanager controller
- Extended operating map on both operating ambient temperature (-20 up to 48°C) and leaving water temperature sides (-12°C to +20°C) makes the unit suitable for a wide range of applications
- Highly configurable to meet specific performance and budget requirements in comfort or process applications
- Completely integrated hydraulic kit (buffer tank and pumps)
- Partial heat recovery or total heat recovery (optional)
- Quiet operation thanks to XXLN version, featuring enhanced sound proofing insulation and dedicated fans.
- Slim design: ideal to fit in elevators for projects with difficult access (width 1100 mm, height without fans < 2000 mm)



Compact: models just 1.1 meter wide

Flex units can be easily lifted and moved. They fit through doorways and into standard elevators, making them a perfect choice for challenging projects involving replacement in older buildings and/or confined spaces.



Ultimate modularity - scalable beyond 1000 kW cooling capacity

Flex's modularity is ideal when capacity extension is required as the building demand or process cooling demand evolves.

Up to 6 units can be combined and connected thanks to an optional dedicated hydraulic connection kit.

The Multimanager controller based on Symbio 500 proprietary hardware and software can manage a cascade up to 6 units, pumps management in case of shared pump(s), diagnostics, manifold inlet and outlet temperature probes.



All-in-one solution

The Trane FLEX chiller can be fitted with a range of hydraulic kits, offering either inverter-driven pumps or simple on/off pumps to match specific application needs.

Despite its compact footprint, the unit can incorporate a large integrated tank, delivering a convenient plug-and-play solution. The entire hydraulic circuit can also be enclosed within a protective metal housing.

Optional aesthetic grilles and metal mesh filters are available to help safeguard the outdoor coils from accidental damage.



Dedicated features and options for Process applications

Flex units include features designed for process applications, such as a boxed-in refrigerant circuit and an IP54-certified electrical panel.

In addition, a wide range of accessories is available, including metal mesh filters to protect outdoor coils in dusty environments and a bypass water valve to prevent water hammer in the circuit.

Range description

- Flex are available in 7 different cooling capacities. Features can be optimized to suit the building's size, cooling demand and function.
Size 026 features DC inverter compressor.
- Your Trane Sales Engineer will help you select the right chiller based on your specific performance criteria and available (roof) space.

Technical specifications

Unit type	Air-to-water
Operating mode	Cooling only
Cooling capacity	87-164 kW
Heating capacity	-----
Eurovent certification	
ErP Certification	
Refrigerants	R454B
Energy saving	Heat recovery Adaptive Frequency™ Drive
Compressor	Scroll
Data protocols	Bacnet Modbus

FLEX - Standard Noise

	P _c (1) kW	EER (1)	SEER (2)	η _{sc} (2) %	L _{wO} (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
FLEX 026	87,4	3,38	5,33	210,1	96	2774	1115	2327	687
FLEX 028	96,7	3,39	5,08	200,1	88	2774	1115	2327	751
FLEX 032	109,4	3,29	4,70	185,1	88	2774	1115	2327	789
FLEX 037	119,4	3,20	4,72	185,8	88	2774	1115	2327	800
FLEX 041	136,5	3,45	4,88	192,1	90	3741	1115	2327	954
FLEX 045	151,2	3,32	4,89	192,4	91	3741	1115	2327	952
FLEX 051	163,5	3,15	4,62	181,7	92	3741	1115	2327	1026

P_c: Cooling capacity

η_{sc}: Seasonal space cooling energy efficiency

W: Width

EER: Energy Efficiency Ratio (cooling)

L_{wO}: A-weighted sound power level outside

H: Height

SEER: Seasonal Energy Efficiency Ratio

L: Length

OW : Operating Weight

(1): Cooling: outdoor air temperature 35°C and chilled water temperature 12°C/7°C. (EN 14511:2022)

(2): Ecodesign rating for comfort chiller - Fan coil application. Outdoor air temperature 35°C and chilled water temperature in/ out: 12°C/7°C. η_{s,c}/SEER as defined in Ecodesign requirements for Comfort Chillers with 2000 kW maximum capacity - REGULATION (EU) N° 2016/2281 of 20 December 2016.

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

(4): Basic unit without accessories

FLEX - Super Low Noise

	P _c (1) kW	EER (1)	SEER (2)	η _{sc} (2) %	L _{wO} (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
FLEX 026 XXLN	86,8	3,42	5,36	211,5	84	2774	1115	2327	737
FLEX 028 XXLN	95,8	3,38	5,11	201,4	82	2774	1115	2327	821
FLEX 032 XXLN	108,1	3,25	4,73	186,0	83	2774	1115	2327	859
FLEX 037 XXLN	117,7	3,14	4,76	187,3	83	2774	1115	2327	870
FLEX 041 XXLN	135,2	3,46	4,91	193,4	84	3741	1115	2327	1024
FLEX 045 XXLN	149,4	3,29	4,91	193,4	85	3741	1115	2327	1022
FLEX 051 XXLN	161,4	3,10	4,64	182,5	86	3741	1115	2327	1096

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



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