TRANE®

High performance, sustainable and compact

FLEX$_2$O

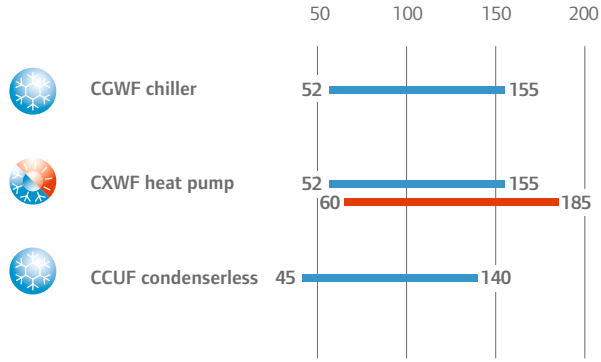
Cooling capacity 50-155 kW
Heating capacity 60-185 kW

High performance, sustainable and compact

Flex$_2$O chillers and heat pumps cover all commercial and industrial application requirements while providing superior year round efficiency for cooling and/or heating your building or process. City centers and older buildings do not always allow for easy transportation of units into, onto or next to buildings. With this challenge in mind the Flex$_2$O unit has been specially designed for restricted spaces and to facilitate internal transport and easy installation. Its compact design makes it very suitable for replacement projects. The heat pump version is a sustainable, electrified alternative to traditional fossil-fueled boilers.

Range description

- CGWF: Water-cooled chillers
- CXWF: Water-to-water heat pumps
- CCUF: Condenserless units



Unit description

- Scalable up to 930 kW cooling or 1100 kW heating capacity (6 units combined with FlexMaster controller)
- Large operating map to address specific design criteria of applications like in hospitals, office buildings, larger apartment buildings, warehouses and all kind of industrial applications:
  - Chilled water temperatures between -7°C and +25°C
  - Hot water temperatures up to +60°C

  Optimized for connection to HVAC systems based on air handling units, under floor heating, radiators or chilled beams
- "State of the art" high efficiency scroll compressors
- Single refrigerant circuit with electronic expansion valve
- Evaporator stainless steel brazed plate type externally insulated equipped with differential pressure switch and antifreeze protection electric heater
- Condenser stainless steel brazed plate type externally insulated equipped with differential pressure switch (without on CCUF)
- Multiple hydraulic versions, with/without on-off or inverter-driven water pumps and buffer tank (optional)

Factory-mounted options

- Standard (SE) or high efficiency (HE)
- Low noise (LN) and super low noise (SLN)
- Power factor correction
- Automatic circuit breakers for compressors
- Control panel electric heater with thermostat
- TP serial card with BACnet protocol MS/TP or TCP/IP
- Phase failure protection relay
- Condensing control with modulating 2/3 way valve
- Electrical power supply 400V/3ph without neutral
- Soft starter
- Anti-freeze protection for hydraulic versions
- Hydraulic module on user side with single or dual water pumps (low or high pressure) and /or water buffer tank (CGWF/CCUF)
- Hydraulic module on source side with single or dual water pumps (low or high pressure) and/or water buffer tank
- Water pumps with automatic changeover
- Oversized water pump seal for operation with glycol > 25%
- Condenserless unit CCUF can be supplied with integrated hydraulic evaporator and condenser modules, for simplified, faster and cheaper installation

Accessories

- Remote control display
- Flow switch
- Automatic water filling
- Water strainer
- Water gauges
- Rubber or spring anti-vibration mounts

Controls

- Microprocessor-controller to manage on/off mode, operating mode, parameters setting and error code display
- Modbus communication card RS485
- Interface with FlexMaster controller (optional)

Modularity

- $Flex_2O$ modularity makes it suitable when an extension of capacity becomes required as the building demand evolves.

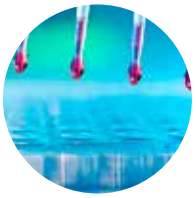
FlexMaster controller (optional) is ideal for connecting up to six $Flex_2O$ and/or Flex II modular units to one single master controller. The **FlexMaster** can also manage the following water pumps:

- **External water pumps** – single or dual pumps, inverter driven or fixed water flow
- **Integrated water pumps** - single or dual pumps, inverter driven or fixed water flow

$Flex_2O$ chillers, condenserless units and heat pumps are ideal for medium-sized commercial buildings and industrial processes:

Office buildings

Automotive & Laser cutting machines



Healthcare & Pharmaceuticals

Food Industry

High energy performance

Flex$_2$O units are specifically designed for high energy performance combined with small footprint.
In fact, all CGWF chillers already pass the seasonal energy efficiency thresholds (SEER) mandatory from January 1st, 2021, as stipulated in the applicable Ecodesign Regulation for chillers.
All CXWF heat pump models meet the highest Ecodesign efficiency class **A+++**

Superior (seasonal) energy performance means:

- Low annual operating costs due to low electricity usage
- Sustainable HVAC system with low carbon emissions
- Access to national subsidy or fiscal grant schemes (CXWF heat pumps)

Compact, smart design

Units are compact and well-suited for equipment rooms' restricted spaces.
For replacement in existing HVAC systems the compactness and slim width will allow easy internal transport, even through doors and into service elevators, without disassembling the unit.
The unit can be positioned with a long side adjacent to the wall, while ensuring full access to major components.
The design features practical same side water piping connections on all models.

Geothermal applications

The technologies built into Trane's Flex$_2$O heat pumps make them ideally suited to geothermal applications.

General specifications

CXWF heat pumps

Unit size		060	070	080	095	110	125	145	160	175
Heating EN 14511 value - LWT 35°C (1)										
Total heating capacity	(kW)	63.8	73.2	82.5	101.1	113.8	134.2	153.7	170.6	186.4
Total power input	(kW)	11.8	13.6	15.5	18.7	20.8	24.7	28.6	31.4	34.5
Total COP		5.4	5.4	5.3	5.4	5.5	5.4	5.4	5.4	5.4
Condenser water flow - user side	(m³/h)	11.0	12.6	14.2	17.4	19.6	23.1	26.4	29.3	32.1
Condenser water pressure drop - user side	(kPa)	10.2	13.1	16.3	23.8	16.1	21.9	20.1	24.4	28.8
Evaporator water flow - source side	(m³/h)	14.9	17.1	19.2	23.6	26.7	31.4	35.9	39.9	43.5
Evaporator water pressure drop - source side	(kPa)	40.7	52.3	64.9	41.1	51.5	38.0	48.7	42.5	50.0
Heating EN 14511 value - LWT 45°C (2)										
Total heating capacity	(kW)	60.5	69.4	78.3	95.8	107.9	127.2	145.7	161.7	176.8
Total power input	(kW)	14.4	16.5	18.8	22.7	25.4	30.1	34.8	38.2	41.8
Total COP		4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Eurovent Efficiency Class		B	B	B	B	B	B	B	B	B
Condenser water flow - user side	(m³/h)	10.4	11.9	13.5	16.5	18.6	21.9	25.1	27.8	30.4
Condenser water pressure drop - user side	(kPa)	9.0	11.6	14.4	21.0	14.2	19.4	17.8	21.6	25.6
Evaporator water flow - source side	(m³/h)	13.2	15.2	17.1	21.0	23.6	27.8	31.8	35.4	38.7
Evaporator water pressure drop source side	(kPa)	32.5	41.8	51.9	33.0	41.2	30.4	38.9	34.0	40.2
Cooling EN 14511 value LWT 7°C (3)										
Total cooling capacity	(kW)	53.5	61.1	68.6	84.2	95.2	112.1	127.9	142.3	155.1
Total power input	(kW)	11.1	12.9	14.7	18.0	19.8	23.8	27.4	30.3	33.4
Total EER		4.8	4.7	4.7	4.7	4.8	4.7	4.7	4.7	4.7
Eurovent Efficiency class		B	B	B	B	B	B	B	B	B
Evaporator water flow - user side	(m³/h)	9.2	10.5	11.8	14.5	16.4	19.3	22.0	24.5	26.7
Evaporator water pressure drop - user side	(kPa)	16.6	21.1	26.1	16.6	20.7	15.4	19.5	17.1	20.0
Condenser water flow - source side	(m³/h)	11.1	12.7	14.3	17.6	19.8	23.4	26.7	29.7	32.4
Condenser water pressure drop - source side	(kPa)	10.4	13.3	16.5	24.2	16.4	22.3	20.4	24.8	29.3
Cooling EN 14511 value LWT 18°C (4)										
Total cooling capacity	(kW)	76.4	87.0	97.3	119.1	134.8	158.1	180.3	200.1	217.8
Total power input	(kW)	10.6	12.5	14.4	18.0	19.8	23.7	27.1	30.6	34.2
Total EER		7.2	7.0	6.7	6.6	6.8	6.7	6.7	6.6	6.4
Evaporator water flow - user side	(m³/h)	13.1	15.0	16.7	20.5	23.2	27.2	31.0	34.4	37.5
Evaporator water pressure drop - user side	(kPa)	30.5	38.7	47.7	30.0	37.7	27.7	35.3	30.8	36.0
Condenser water flow - source side	(m³/h)	15.0	17.1	19.2	23.6	26.6	31.3	35.7	39.7	43.3
Condenser water pressure drop - source side	(kPa)	17.9	22.9	28.4	41.6	28.2	38.2	34.9	42.6	50.3
Seasonal efficiency in heating according to EN14825 (5)										
P rated	(kW)	68.8	82.4	88.9	109.0	122.6	144.8	165.6	180.0	200.9
ηs.heating	(%)	2.38	2.36	2.33	2.40	2.40	2.41	2.37	2.41	2.38
SCOP		6.15	6.10	6.03	6.19	6.19	6.23	6.13	6.24	6.15
Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Seasonal efficiency in cooling according to EN 14825 (6)										
P rated	(kW)	53.5	61.1	68.6	84.2	95.2	112.1	127.9	142.3	155.1
ηs,cooling	(%)	2.13	2.15	2.14	2.19	2.27	2.36	2.33	2.38	2.33
SEER		5.52	5.58	5.55	5.68	5.87	6.11	6.02	6.15	6.03
Hydraulic module - user side (optional) (7)										
Available pump pressure - low pressure pump	(kPa)	199	188	176	207	198	195	183	178	164
Available pump pressure - high pressure pump	(kPa)	276	259	241	308	281	290	273	269	255
Hydraulic module - source side (optional) (7)										
Available pump pressure - low pressure pump	(kPa)	195	184	172	191	192	176	167	153	179
Available pump pressure - high pressure pump	(kPa)	317	303	289	315	297	315	304	287	270
Compressors										
Number of compressors / refrigerant circuit(s)		2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Number of part load steps		3	3	3	3	2	3	2	3	2
Minimum capacity step	(%)	45%	39%	45%	44%	50%	43%	50%	44%	50%
Refrigerant charge (8)	(kg)	8.4	8.9	9.4	13.0	12.2	13.0	15.5	16.1	16.6
Sound levels										
Sound power level (ISO 9614)	(db(A))	78	79	80	81	82	84	86	86	86
Sound pressure level at 10 m	(db(A))	47	48	49	50	46	48	50	50	50
Sound power level (ISO 9614) - super low noise	(db(A))	73	74	75	76	77	79	81	81	81
Sound pressure level at 10 m - super low noise	(db(A))	42	43	44	45	41	43	45	45	45
Electrical data										
Power supply		400V / 3+n / 50Hz								
Dimensions and weights (9)										
Length	(mm)	1555	1555	1555	1555	1555	1755	1755	1755	1755
Width	(mm)	676	676	676	676	676	810	810	810	810
Height	(mm)	1417	1417	1417	1417	1417	1407	1407	1407	1407
Operating weight	(kg)	448	450	455	465	510	692	738	747	749
Shipping weight	(kg)	422	424	429	439	453	634	677	685	687

(1) Evaporator water temperature in 10°C - Condenser water temperature in/out 30/35°C
(2) Evaporator water temperature in/out 10/7°C - Condenser water temperature in/out 40/45°C
(3) Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C
(4) Evaporator water temperature in/out 23/18°C - Condenser water temperature in/out 30/35°C
(5) Ecodesign rating at low temperature conditions. Source water temperature in/out 10/7°C and hot water temperature in/out 30/35°C. SCOP / ηs,h as defined in EU Directive 2009/125/EC with regard to Ecodesign requirements for Space heaters and combination heaters with Prated < 400kW - REGULATION (EU) N° 813/2013 of 2.August 2013
(6) Ecodesign rating for comfort chiller – fan coil application. Source water temperature in/out 30/35°C and evaporator water temperature in/out 12/7°C. SEER / ηs,c as defined in EU Directive 2009/125/EC with regard to Ecodesign requirements for Comfort Chillers with 2000 kW max. capacity - REGULATION (EU) N° 2016/2281 of 20.December 2016
(7) For double pump version there is an additional water pressure drop of 70 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For pump+tank version there is an additional water pressure drop of 30 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For double pump+tank version there is an additional water pressure drop of 90 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C)
(8) Refrigerant charge values are not binding, please check the effective quantity of refrigerant shown on unit nameplate.
(9) Please refer to the technical bulletin for extra dimensions and weights with hydraulic modules. For exact weight of LN and SLN models please contact your local Trane Sales office.

General specifications

CGWF High Efficiency (HE) chillers

Unit size		055	060	070	085	095	110	130	140	155
Cooling EN 14511 value LWT 7°C (1)										
Total cooling capacity	(kW)	53.5	61.1	68.6	84.2	95.2	112.1	127.9	142.3	155.1
Total power input	(kW)	11.1	12.9	14.7	18.0	19.8	23.8	27.4	30.3	33.4
Total EER		4.8	4.7	4.7	4.7	4.8	4.7	4.7	4.7	4.7
Eurovent Efficiency class		B	B	B	B	B	B	B	B	B
Evaporator water flow - user side	(m³/h)	9.2	10.5	11.8	14.5	16.4	19.3	22.0	24.5	26.7
Evaporator water pressure drop - user side	(kPa)	16.6	21.1	26.1	16.6	20.7	15.4	19.5	17.1	20.0
Condenser water flow - source side	(m³/h)	11.1	12.7	14.3	17.6	19.8	23.4	26.7	29.7	32.4
Condenser water pressure drop - source side	(kPa)	10.4	13.3	16.5	24.2	16.4	22.3	20.4	24.8	29.3
Cooling EN 14511 value LWT 18°C (2)										
Total cooling capacity	(kW)	76.4	87.0	97.3	119.1	134.8	158.1	180.3	200.1	217.8
Total power input	(kW)	10.6	12.5	14.4	18.0	19.8	23.7	27.1	30.6	34.2
Total EER		7.2	7.0	6.7	6.6	6.8	6.7	6.7	6.6	6.4
Evaporator water flow - user side	(m³/h)	13.1	15.0	16.7	20.5	23.2	27.2	31.0	34.4	37.5
Evaporator water pressure drop - user side	(kPa)	30.5	38.7	47.7	30.0	37.7	27.7	35.3	30.8	36.0
Condenser water flow - source side	(m³/h)	15.0	17.1	19.2	23.6	26.6	31.3	35.7	39.7	43.3
Condenser water pressure drop - source side	(kPa)	17.9	22.9	28.4	41.6	28.2	38.2	34.9	42.6	50.3
Seasonal efficiency in cooling according to EN 14825 (3)										
P rated	(kW)	53.5	61.1	68.6	84.2	95.2	112.1	127.9	142.3	155.1
ηs.cooling	(%)	2.1	2.2	2.1	2.2	2.3	2.4	2.3	2.4	2.3
SEER		5.52	5.58	5.55	5.68	5.87	6.11	6.02	6.15	6.03
Hydraulic module - user side (optional) (4)										
Available pump pressure - low pressure pump	(kPa)	199	188	176	207	198	195	183	178	164
Available pump pressure - high pressure pump	(kPa)	276	259	241	308	281	290	273	269	255
Water tank volume	(l)	120	120	120	120	120	120	120	120	120
Hydraulic module - source side (optional) (4)										
Available pump pressure - low pressure pump	(kPa)	195	184	172	191	192	176	167	153	179
Available pump pressure - high pressure pump	(kPa)	317	303	289	315	297	315	304	287	270
Compressors										
Number of compressors / refrigerant circuit(s)		2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Number of part load steps		3	3	3	3	2	3	2	3	2
Minimum capacity step	(%)	45%	39%	45%	44%	50%	43%	50%	44%	50%
Refrigerant charge (5)	(kg)	8.4	8.9	9.4	13.0	12.2	13.0	15.5	16.1	16.6
Sound level										
Sound power level (ISO 9614)	(db(A))	78	79	80	81	82	84	86	86	86
Sound pressure level at 10 m	(db(A))	47	48	49	50	46	48	50	50	50
Sound power level (ISO 9614) - low noise model	(db(A))	75	76	77	78	79	81	83	83	83
Sound pressure level at 10 m - low noise model	(db(A))	44	45	46	47	43	45	47	47	47
Sound power level (ISO 9614) - super low noise	(db(A))	73	74	75	76	77	79	81	81	81
Sound pressure level at 10 m - super low noise	(db(A))	42	43	44	45	41	43	45	45	45
Electrical data										
Power supply		400V / 3+n / 50Hz								
Dimensions and weights (6)										
Length	(mm)	1555	1555	1555	1555	1555	1755	1755	1755	1755
Width	(mm)	676	676	676	676	676	810	810	810	810
Height	(mm)	1417	1417	1417	1417	1417	1407	1407	1407	1407
Operating weight	(kg)	448	450	455	465	510	692	738	747	749
Shipping weight	(kg)	422	424	429	439	453	634	677	685	687

(1) Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C.
(2) Evaporator water temperature in/out 23/18°C - Condenser water temperature in/out 30/35°C.
(3) Ecodesign rating for comfort chillers. Source water temperature in/out 30/35°C and evaporator water temperature in/out 12/7°C. SEER/ηs,c as defined in REGULATION (EU) N° 2016/2281 of 20.December 2016
(4) For double pump version there is an additional water pressure drop of 70 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For pump+tank version there is an additional water pressure drop of 30 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For double pump+tank version there is an additional water pressure drop of 90 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C)
(5) Refrigerant charge values are not binding, please check the effective quantity of refrigerant shown on unit nameplate
(6) Please refer to the technical bulletin for extra dimensions and weights of hydraulic modules. For exact weight of LN and SLN models please contact the local Trane Sales office.

CGWF Standard Efficiency (SE) chillers

Unit size		050	060	065	080	090	110	125	135	150
Cooling EN 14511 value LWT 7°C (1)										
Total cooling capacity	(kW)	52.0	59.1	65.8	80.0	91.2	108.2	124.4	136.6	148.5
Total power input	(kW)	11.7	13.5	15.5	19.3	20.7	24.9	28.1	31.2	34.3
Total EER		4.5	4.4	4.2	4.2	4.4	4.4	4.4	4.4	4.3
Eurovent Efficiency class		C	C	D	D	C	C	C	C	C
Evaporator water flow - user side	(m³/h)	8.9	10.2	11.3	13.8	15.7	18.6	21.4	23.5	25.5
Evaporator water pressure drop - user side	(kPa)	29.2	37.0	45.2	34.5	43.9	26.2	33.8	40.1	46.8
Condenser water flow - source side	(m³/h)	11.0	12.5	14.0	17.1	19.2	22.9	26.2	28.9	31.5
Condenser water pressure drop - source side	(kPa)	43.3	55.3	68.4	53.0	28.5	39.4	27.6	32.9	38.6
Cooling EN 14511 value LWT 18°C (2)										
Total cooling capacity	(kW)	73.4	82.9	92.0	112.4	128.2	152.1	174.9	191.8	208.2
Total power input	(kW)	11.6	13.7	15.8	20.1	21.3	25.5	28.4	32.2	36.1
Total EER		6.3	6.1	5.8	5.6	6.0	6.0	6.2	6.0	5.8
Evaporator water flow - user side	(m³/h)	12.6	14.3	15.8	19.3	22.1	26.2	30.1	33.0	35.8
Evaporator water pressure drop - user side	(kPa)	53.4	67.1	81.7	62.5	79.9	47.2	61.2	72.8	84.9
Condenser water flow - source side	(m³/h)	14.6	16.6	18.5	22.8	25.7	30.5	35.0	38.5	42.0
Condenser water pressure drop - source side	(kPa)	74.0	94.0	115.5	90.8	48.7	67.4	47.0	56.3	66.2
Seasonal efficiency in cooling according to EN 14825 (3)										
P rated	(kW)	52.0	59.1	65.8	80.0	91.2	108.2	124.4	136.6	148.5
ηs.cooling	(%)	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2	2.2
SEER		5.34	5.35	5.30	5.40	5.56	5.79	5.79	5.80	5.70
Hydraulic module - user side (optional) (4)										
Available pump pressure - low pressure pump)	(kPa)	187	174	160	191	177	186	170	158	150
Available pump pressure - high pressure pump)	(kPa)	311	296	281	343	315	326	310	297	282
Water tank volume	(l)	120	120	120	120	120	120	120	120	120
Hydraulic module - source side (optional) (4)										
Available pump pressure - low pressure pump)	(kPa)	163	143	157	164	182	160	161	176	167
Available pump pressure - high pressure pump)	(kPa)	285	263	239	291	291	299	299	282	265
Compressors										
Number of compressors / refrigerant circuit(s)		2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Number of part load steps		3	3	3	3	2	3	2	3	2
Minimum capacity step	(%)	45%	39%	45%	44%	50%	43%	50%	44%	50%
Refrigerant charge (5)	(kg)	5.6	5.6	5.6	5.6	8.4	9.1	12.2	12.2	12.2
Sound level										
Sound power level (ISO 9614)	(db(A))	78	79	80	81	82	84	86	86	86
Sound pressure level at 10 m	(db(A))	47	48	49	50	46	48	50	50	50
Sound power level (ISO 9614) - low noise model	(db(A))	75	76	77	78	79	81	83	83	83
Sound pressure level at 10 m - low noise model	(db(A))	44	45	46	47	43	45	47	47	47
Sound power level (ISO 9614) - super low noise	(db(A))	73	74	75	76	77	79	81	81	81
Sound pressure level at 10 m - super low noise	(db(A))	42	43	44	45	41	43	45	45	45
Electrical data										
Power supply		400V / 3+n / 50Hz								
Dimensions and weights (6)										
Length	(mm)	1555	1555	1555	1555	1555	1755	1755	1755	1755
Width	(mm)	676	676	676	676	676	810	810	810	810
Height	(mm)	1417	1417	1417	1417	1417	1407	1407	1407	1407
Operating weight	(kg)	427	429	434	457	482	622	687	690	693
Shipping weight	(kg)	409	412	416	431	442	582	629	633	635

(1) Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C.
(2) Evaporator water temperature in/out 23/18°C - Condenser water temperature in/out 30/35°C.
(3) Ecodesign rating for comfort chillers. Source water temperature in/out 30/35°C and evaporator water temperature in/out 12/7°C. SEER/ηs,c as defined in REGULATION (EU) N° 2016/2281 of 20.December 2016
(4) For double pump version there is an additional water pressure drop of 70 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For pump+tank version there is an additional water pressure drop of 30 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For double pump+tank version there is an additional water pressure drop of 90 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C)
(5) Refrigerant charge values are not binding, please check the effective quantity of refrigerant shown on unit nameplate
(6) Please refer to the technical bulletin for extra dimensions and weights of hydraulic modules. For exact weight of LN and SLN models please contact the local Trane Sales office.

General specifications

CCUF condenserless units

Unit size		050	055	065	075	085	100	115	130	140
Cooling (1)										
Total cooling capacity	(kW)	48.0	54.8	61.3	75.9	84.9	101.6	115.5	127.5	139.1
Total power input	(kW)	13.0	14.8	16.7	20.2	22.7	27.0	31.2	34.2	37.2
Total EER		3.7	3.7	3.7	3.8	3.7	3.8	3.7	3.7	3.7
Evaporator water flow	(m^3/h)	8.3	9.4	10.5	13.1	14.6	17.5	19.9	21.9	23.9
Evaporator water pressure drop	(kPa)	25.1	32.0	39.3	31.2	38.3	23.2	29.3	35.2	41.3
Cooling (2)										
Total cooling capacity	(kW)	44.8	51.3	57.6	70.9	79.3	94.9	107.9	119.0	130.0
Total power input	(kW)	14.5	16.5	18.6	22.5	25.4	30.1	34.8	38.1	41.5
Total EER		3.1	3.1	3.1	3.2	3.1	3.2	3.1	3.1	3.1
Evaporator water flow	(m^3/h)	7.7	8.8	9.9	12.2	13.6	16.3	18.6	20.5	22.4
Evaporator water pressure drop	(kPa)	22.1	28.3	35.0	27.6	33.8	20.5	25.9	31.0	36.4
Hydraulic module (optional) (3)										
Available pump pressure - low pressure pump)	(kPa)	195	182	169	196	185	192	179	167	172
Available pump pressure - high pressure pump)	(kPa)	319	305	291	351	330	332	319	306	293
Water tank volume	(l)	120	120	120	120	120	120	120	120	120
Compressors										
Number of compressors / refrigerant circuit(s)		2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Number of part load steps		3	3	3	3	2	3	2	3	2
Minimum capacity step	(%)	45%	39%	45%	44%	50%	43%	50%	44%	50%
Sound level										
Sound power level (ISO 9614)	(db(A))	78	79	80	81	82	84	86	86	86
Sound pressure level at 10 m	(db(A))	47	48	49	50	46	48	50	50	50
Sound power level (ISO 9614). low noise model	(db(A))	75	76	77	78	79	81	83	83	83
Sound pressure level at 10 m - low noise model	(db(A))	44	45	46	47	43	45	47	47	47
Sound power level (ISO 9614) - super low noise	(db(A))	73	74	75	76	77	79	81	81	81
Sound pressure level at 10 m - super low noise	(db(A))	42	43	44	45	41	43	45	45	45
Electrical data										
Power supply		400V / 3+n / 50Hz								
Dimensions and weights (4)										
Length	(mm)	1555	1555	1555	1555	1555	1755	1755	1755	1755
Width	(mm)	676	676	676	676	676	810	810	810	810
Height	(mm)	1417	1417	1417	1417	1417	1407	1407	1407	1407
Operating weight	(kg)	399	401	405	420	425	564	603	606	608
Shipping weight	(kg)	394	396	400	415	420	559	598	601	603

(1) Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C.
(2) Evaporator water temperature in/out 23/18°C - Condenser water temperature in/out 30/35°C.
(3) For double pump version there is an additional water pressure drop of 70 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For pump+tank version there is an additional water pressure drop of 30 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C). For double pump+tank version there is an additional water pressure drop of 90 kPa, with flow calculated at nominal conditions (Tevap in/out 12/7°C – Tcond in/out 30/35°C)
(4) Please refer to the technical bulletin for extra dimensions and weights of hydraulic modules. For exact weight of LN and SLN models please contact the local Trane Sales office.

Ingersoll Rand

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