



## Air-to-water heat pumps with inverter-driven scroll compressors



Cooling capacity: 6 to 70 kW  
Heating capacity: 6.5 to 65 kW

TRANE  
TECHNOLOGIES

# Trane Picco

## Market-leading range of high performance, compact heat pumps

Picco reversible heat pumps are designed for light commercial applications. Being extremely versatile, they can provide hot water for winter heating, sanitary hot water and chilled water for summer cooling. The system works seamlessly with radiant and fan coil systems using network or renewable sourced power supply.



### Unit description

- Customized microprocessor control system with overheat protection and electronic expansion valve (EEV).
- Twin rotary DC inverter compressors.
- DC inverter driven axial fans.
- Condenser coil with hydrophilic aluminium fins and copper piping.
- Heat exchanger: Brazed stainless steel plate to AISI 316.
- Copper piped refrigerant circuit with condensing control, EEV, reverse valve, high/low pressure switch, liquid separator and receiver, maintenance and control valves, double inlet pressure, high and low pressure transducers.
- Integral hydraulic system with high efficiency brushless pump, expansion tank, flow switch, air valve, pressure relief valve, pressure gauge and water valve for charging/discharging the system.
- Conto termico 2.0 eligible. Class A in cooling and heating. Available for all regional subsidy programs
- Ecodesign compliant
- Modular set-up with Hi-T controller (optional)
- Three acoustic packages: Standard, low noise super low noise

### 6 - 16 kW models

2 versions available (standard ambient and low ambient with integrated defrost)



### Accessories

- Vibration damper kit
- Antifreeze kit
- Multifunctioning touch screen remote control
- Diverter valve (1") Kvs 6,9
- DHW probe / Sanitary water probe
- Frost protection

## Specifications 6 - 16 kW models

		06	08	10	12	14	14T	16	16T
(1) Cooling capacity (50 Hz)	kW	6.87	8.52	10	11.9		13.8		15.69
(1) Cooling capacity (≈30 Hz)*	kW	3.65	4.65	5.4	5.4		6.7		8.7
(1) Cooling capacity (≈58 Hz)*	kW	7.56	9.12	11.35	13.1		15.2		16.3
(1) Power input	kW	1.69	2.18	2.26	2.65		2.93		3.20
(1) E.E.R.	W/W	4.06	3.91	4.43	4.49		4.72		4.90
(2) Cooling capacity at nominal compressor capacity (50 Hz)	kW	5.07	6.12	7.56	8.49		11.46		14.64
(2) Cooling capacity at minimal compressor capacity (≈30 Hz)*	kW	2.32	2.95	3.27	3.27		5.3		6.3
(2) Cooling capacity at maximal compressor capacity (≈58 Hz)*	kW	5.58	6.73	8.83	9.6		12.05		16
(2) Power input	kW	1.74	2.11	2.43	2.74		3.7		4.52
(2) E.E.R.	W/W	2.91	2.9	3.11	3.1		3.1		3.24
(5) SEER	W/W	3.59	3.61	4.63	4.73		4.51		4.77
(3) Heating capacity (50 Hz)	kW	6.57	8.01	10	12.1		13.76		15.21
(3) Heating capacity (≈30 Hz)*	kW	2.78	3.54	4.69	4.69		5.5		7.1
(3) Heating capacity (≈58 Hz)*	kW	7.23	8.81	10.8	12.7		15.1		15.9
(3) Power input	kW	1.47	1.85	2.26	2.89		3.2		3.45
(3) C.O.P.	W/W	4.47	4.33	4.43	4.19		4.3		4.41
(4) Cooling capacity at nominal compressor capacity (50 Hz)	kW	6.15	7.92	9.51	11.3		13.55		15.17
(4) Cooling capacity at minimal compressor capacity (≈30 Hz)*	kW	2.24	2.85	3.9	3.9		5.3		6.5
(4) Cooling capacity at maximal compressor capacity (≈58 Hz)*	kW	6.76	8.71	10.3	12.1		14.9		15.8
(4) Power input	kW	1.83	2.4	2.74	3.32		4.04		4.38
(4) E.E.R.	W/W	3.36	3.31	3.47	3.41		3.35		3.46
(6) SCOP	W/W	3.84	3.83	4.24	4.31		4.01		4.07
Energy efficiency class		A++ / A+	A++ / A+	A++ / A+	A++ / A+		A++ / A+		A++ / A++
Power supply	V, Ph, Hz	230/1/50	230/1/50	230/1/50	230/1/50		230/1/50 400/3/50		230/1/50 400/3/50
Ambient air temp.	°C		-20/+46		-20/+46				
Sound power	dB(A)	62.0	62.5	63	63.5		65.5		66.0
Pump power	kW	0.045	0.045	0.06	0.075		0.14		0.14
Water flow	m³/h	1.13	1.38	1.72	2.08		2.37		2.62
Shipping weight	kg	63.4	63.4	95.5	95.5		115.5		126.3
Width	mm	925	925	1047	1047		1060		1060
Depth	mm	380	380	465	465		455		455
Height	mm	785	785	913	913		1405		1405

(1) Cooling: ambient air temperature 35°C, in/out temperature water 23/18°C  
 (3) Heating: ambient air temperature 7°C dry bulb 6°C wet bulb Water Temp in/out 30/35°C  
 (5) Cooling: temperature in/out water 23/18°C  
 (6) Heating: average climatic conditions: T<sub>biv</sub> = -7°C, Water Temp in/out 30/35°C  
 (7) Sound power, heating mode condition (3); value determined on the basis of measurements taken in accordance with the UNI EN ISO 9614.2, in compliance with the requirements of the Eurovent certification  
 \* = min./max. compressor speed varies per unit model

## 25 - 70 kW models

Designed for commercial applications, the reversible heat pumps provide hot water for winter heating, sanitary hot water at 58°C (up to 65°C with auxiliary electric heater) and chilled water for summer cooling. These versions can be used in combination with radiant/fan coil systems, centralized systems or medium to large industrial or commercial systems. SEER and SCOP reach high values with DC scroll compressors, EC fan and high efficiency heat exchangers. The DC inverter compressors allow to save up to 25% in power consumption. The inverter compressors optimized for heat pump operation under heavy conditions can be integrated with a steam injection system to provide a high level of comfort with low energy consumption even in the winter season (down to -25°C ambient air temperature).



### Accessories

- Protection module
- DC fan
- AC fan No LT version
- EC integrated pump
- Shut off valve
- High efficiency integrated auto adaptive circulator
- Antifreeze kit
- Plant management module
- Silencing / low noise version
- Super silencing / super low noise version
- Multifunction touch screen remote controller
- Rubber shock absorbers
- Anti-corrosion fanguard treatment
- Sanitary water probe



## Specifications 25 - 70 kW models

		0125	0135	0250F	0250	0260	0270	LT 0125	LT 0235	LT 0250
(1) Cooling capacity (50 Hz)	kW	30.65	36.37	49.32	49.32	57.14	70.76	30.67	36.37	47.56
(1) Cooling capacity (≈58 Hz)*	kW	33.5	39.3	51.8	51.8	60.6	72.2			
(1) Power input	kW	6.82	8.91	12.71	12.52	13.97	18.18	7.34	8.91	12.52
(1) E.E.R.	W/W	4.46	4.08	3.90	3.90	4.09	3.76	4.18	4.08	3.80
(2) Cooling capacity (50 Hz)	kW	21.15	27.04	36.36	36.36	42.97	53.4	22.5	26.9	37.6
(2) Cooling capacity (≈58 Hz)*	kW	23.1	29.1	38.3	38.3	45.6	55			
(2) Power input	kW	6.46	9.10	11.96	12.90	13.77	17.6	7.26	9.10	12.83
(2) E.E.R.	W/W	3.26	2.96	3.08	2.80	3.12	2.83	3.10	2.96	2.93
(2) SEER	W/W	4.06	4.50	4.32	3.66	4.41	3.97	3.93	4.04	3.91
(3) Heating capacity (50 Hz)	kW	24.57	32.65	48.25	48.25	52.04	65.2	25.8	32.5	49.26
(3) Heating capacity (≈58 Hz)*	kW	27.1	35.3	51.2	51.2	55.1	66.5			
(3) Power input	kW	5.62	8.02	11.77	11.87	12.59	16.07	6.17	7.98	12.93
(3) C.O.P.	W/W	4.40	4.07	4.14	4.10	4.13	3.78	4.18	4.07	3.81
(4) Heating capacity (50 Hz)	kW	22.05	32.33	41.07	41.07	49.33	60.45	4.18	4.07	3.81
(4) Heating capacity (≈58 Hz)*	kW	24.4	35.1	43.5	43.5	52.3	62.25			
(4) Power input	kW	6.44	9.92	14.7	12.40	15.12	19.56	7.27	9.97	14.4
(4) C.O.P.	W/W	3.44	3.26	3.22	3.34	3.26	3.08	3.53	3.26	3.28
(3) SCOP	W/W	3.83	3.95	3.99	3.82	3.82	3.84	4.02	4.03	3.82
Power supply	V, Ph, Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Width	mm	1198	1198	1198	1198	1198	1198	1198	1198	1198
Depth	mm	1198	1198	1198	1198	1198	1198	1198	1198	1198
Height	mm	1673	1673	1741	1741	1741	1741	1673	1673	1741
Height (SSL2)	mm	1906	1906	1906	1906	1906	1906	1906	1906	1906
Shipping Weight (SSL2)	kg	355	382	428	428	454	460	355	412	428

(1) Cooling: ambient air temperature 35°C, inlet/outlet temperature water 23/18°C  
 (2) Cooling: ambient air temperature 35°C, inlet/outlet temperature water 12/7°C  
 (3) Heating: ambient air temperature 7°C dry bulb 6°C wet bulb, Water Temp inlet/outlet 30/35°C  
 (4) Heating: ambient air temperature 7°C dry bulb 6°C wet bulb, Water Temp inlet/outlet 40/45°C  
 (5) Cooling: temperature inlet/outlet water 23/18°C  
 \* = min./max. compressor speed varies per unit model



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