

VT6028 (Exhaust Air Heat Pump)



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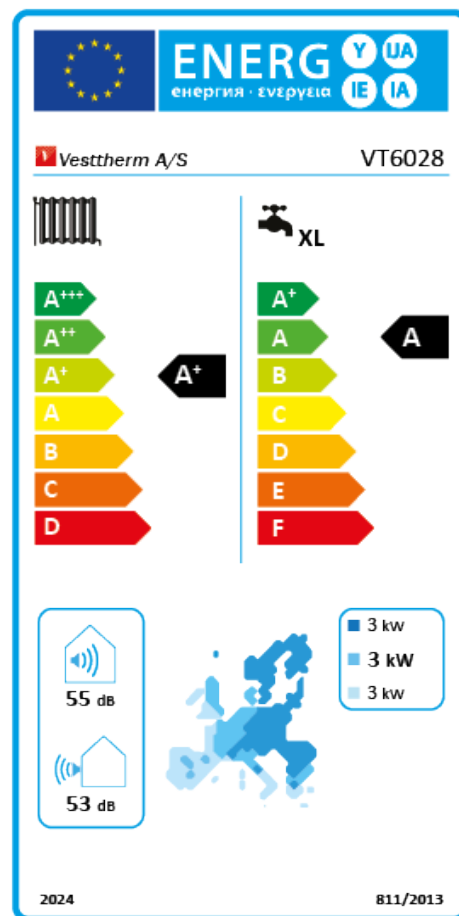
Hot water production

Consumer profile, water heater	L
Energy efficiency class	A
Energy efficiency for water heating - average climate	83.6 %
Annual electricity consumption - average climate	1227 kWh/annum
Temperature settings on the thermostat	10 - 65 °C
Sound power level L_{wa}	54 dB(A)
The water heater can function outside peak load periods (Smart-grid)	Yes
Guidelines for assembly, installation and maintenance	See installation instructions
Energy efficiency for water heating - cold climate	83.6 %
Energy efficiency for water heating - warm climate	83.6 %
Daily electrical consumption (average climate conditions) (Qelec):	5.58 kWh
Annual electricity consumption (average climate conditions):	1227 kWh

Notes:

Coefficient of performance (COP DHW):	2.09
Standby power (Pes):	40 W
Standby heat loss:	0.672 kWh/day
P Rated *	1.4 kW
Reference hot water temperature (θ_{WH}):	51.4 °C

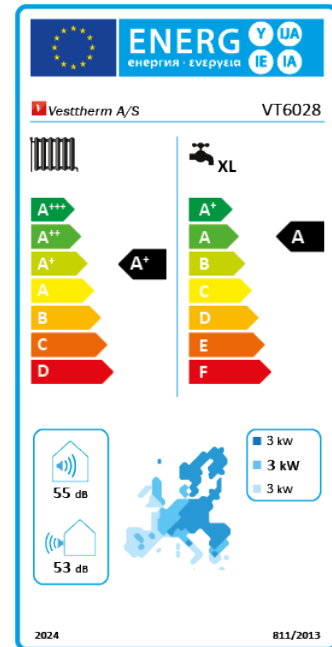
(Measured by 175 m³)



VT6028 (Medium Climate, Low water temperature application: 35°C)

Heat pump for space heating

Model	VT6028
Air-to-water heat pump	Yes
Water-to-water heat pump	No
Brine-to-water heat pump	No
Low-temperature heat pump	No
Equipped with a supplementary heater	Yes
Heat pump combination heater	Yes
Temperature control:	Yes
Model	CTS602-HMI
Class	2
Contribution to seasonal space heating energy efficiency	2%



Item	Symbol	Value	Unit
Rated heat output (*)	Prated	2.5	kW
*Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature of T _j			
T _j = -7 °C	P _{dh}	2.14	kW
T _j = +2 °C	P _{dh}	2.15	kW
T _j = +7 °C	P _{dh}	2.17	kW
T _j = +12 °C	P _{dh}	2.19	kW
T _j = bivalent temperature	P _{dh}	2.13	kW
T _j = operation limit temperature	P _{dh}	2.12	kW
Operation limit temperature T _j = -15 °C (if TOL < -20 °C)	P _{dh}		kW
Bivalent temperature	T _{biv}	-6	°C
Cycling interval capacity for heating	P _{cyh}		kW
Degradation co-efficient	C _{dh}	0.9	
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.012	kW
Thermostat off-mode	P _{TO}	0.073	kW
Standby mode	P _{SB}	0.012	kW
Crankcase heater mode	P _{CK}	0.012	kW
Other items			
Capacity control:	Variable compressor Variable indoor temperature adjustment		
	Permanent indoor water flow Permanent outdoor water flow		
Sound power level, indoor	L _{WA}	55.8	dB
Annual energy consumption	Q _{HE}	1493	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	135.4	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	COP _d	3.73	
T _j = +2 °C	COP _d	3.85	
T _j = +7 °C	COP _d	3.98	
T _j = +12 °C	COP _d	4.12	
T _j = bivalent temperature	COP _d	3.77	
T _j = operation limit temperature	COP _d	3.65	
For air-to-water heat pumps T _j = -15 °C (if TOL < -20 °C)	COP _d		
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	COP _{cyh}		
Heating water operating limit temperature	WTOL	35	°C
Supplementary heater			
Rated heat output	P _{sup}	6	kW
Type of energy input	Electric		
For air-to-water heat pumps: Rated air flow rate, outdoors			
		340	m ³ /h
For water-/ brine-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
			m ³ /h