

Models:	strong H 7-50 / strong HC 7-50
Air-to-water heat pump:	no
Water-to-water heat pump:	no
Brine-to-water heat pump:	yes
Application:	Medium temperature (55 °C)
Equipped with supplementary heater:	no
Heat pump combination heater:	no

Parameter	Symbol	Value	Unit	Parameter	Symbol	Value	Unit
Rated heat output	Prated	50	kW	Energy efficiency	$\eta_s$	175	%
Declared heating capacity for part load at inner temperature of 20 °C and outdoor temperature $T_j$				Declared COP for part load at inner temperature of 20 °C and outdoor temperature $T_j$			
$T_j = -7$ °C	Pdh	44.2	kW	$T_j = -7$ °C	COPd	3.6	-
$T_j = +2$ °C	Pdh	26.9	kW	$T_j = +2$ °C	COPd	4.3	-
$T_j = +7$ °C	Pdh	17.3	kW	$T_j = +7$ °C	COPd	4.8	-
$T_j = +12$ °C	Pdh	7.7	kW	$T_j = +12$ °C	COPd	5.2	-
$T_j =$ bivalent temperature	Pdh	-	kW	$T_j =$ bivalent temperature	COPd	-	-
$T_j =$ limit temperature	Pdh	-	kW	$T_j =$ limit temperature	COPd	-	-
Air-to-water heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)	Pdh		kW	Air-to-water heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)	COPd	-	%
Bivalent temperature	$T_{biv}$	-	°C	In air-to-water heat pumps: limit temperature	TOL	-	°C
Cycling interval capacity for heating	P <sub>cyh</sub>	-	kW	Cycling interval COP	COP <sub>cy</sub>	-	%
Degradation coefficient	Cdh	0.9	-	Heating water operating limit	WTOL	65	°C
Power consumption in modes different than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.005	kW	Rated heat output	P <sub>TO</sub>	-	kW
Off by thermostat	P <sub>TO</sub>	0.010	kW	Type of energy input		-	
Standby mode	P <sub>SB</sub>	0.010	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other parameters							
Capacity control		variable		Air-to-water heat pumps: Nominal airflow		-	m <sup>3</sup> /h
Sound power level (indoor/outdoor)	L <sub>WA</sub>	55 / 0	dB	Water-to-water and brine-to-water heat pumps: Nominal flow rates of water or brine in outdoor heat exchanger		-	8.86 m <sup>3</sup> /h
Annual energy consumption:	Q <sub>HE</sub>	23819	kW h	For heat pump combination heater:			
For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-		Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Daily electricity consumption	Q <sub>elec</sub>	-	kW h	Annual fuel consumption	AFC	-	GJ
Annual energy consumption	AEC	-	kW h				