

Models:	strong P H 20-190 / strong P HC 20-190
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	190	kW	Energy efficiency	η_s	164	%
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	168.1	kW	$T_j = -7$ °C	COPd	3.2	-
$T_j = +2$ °C	Pdh	102.3	kW	$T_j = +2$ °C	COPd	4.1	-
$T_j = +7$ °C	Pdh	65.8	kW	$T_j = +7$ °C	COPd	4.6	-
$T_j = +12$ °C	Pdh	29.2	kW	$T_j = +12$ °C	COPd	5.1	-
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}	-10	°C	In air-to-water heat pumps: limit temperature	TOL	-	°C
Cycling interval capacity for heating	P _{cyh}	-	kW	Cycling interval COP	COP _{cyh}	-	%
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 _{OFF}	0.005	kW	Rated heat output	P _{TO}	-	kW
Off by thermostat	P _{TO}	0.010	kW	Type of energy input		-	
Standby mode	P _{SB}	0.010	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other parameters							
Capacity control		variable		Air-to-water heat pumps: Nominal airflow		-	m ³ /h
Sound power level (indoor/outdoor)	L _{WA}	68 / 0	dB	Water-to-water and brine-to- water heat pumps: Nominal flow rates of water or brine in outdoor heat exchanger		32.7	m ³ /h
Annual energy consumption:	Q _{HE}	95600	kWh	For heat pump combination heater:			
For heat pump combination heater:				Water heating energy efficiency	η_{wh}		%
Declared load profile				Daily fuel consumption	Q _{fuel}	-	kWh
Daily electricity consumption	Q _{elec}		kWh	Annual fuel consumption	AFC	-	GJ
Annual energy consumption	AEC		kWh				