

# TECHNISCHE DATASHEET

~< , 0Z G, ~{ %φ { 230V

**AT-TEC**  
WARMTEPOMPEN



**General Data**

Power Range	A2/W35: 4 - 17	[kW]
Energy class VL 35°C	A++ (from 09/2019: A+++)	[-]
Energy class VL 55°C	A++	[-]
Max. Flow temperature	62,0	[°C]

**Electrical Data**

International Protection Marking	IP20	[-]
Supply control	1/N/PE, 230V, 50Hz	[V, Hz]
Rated Input control	28	[W]
Cos(φ) control	0,90	[-]
Fuse control	1x B13	[-]
Supply compressor	1/N/PE, 230V, 50Hz	[V, Hz]
Operating current compressor	10,19	[A]
Starting current compressor	22 / -	[A / A]
Cos(φ) compressor	0,98	[-]
Fuse compressor	1x C32	[-]

**Sound power level Data acc. EN12102**

Nom. Sound power level heat pump	46,1	[dB(A)]
Max. Sound power level heat pump	57,8	[dB(A)]

**Refrigerant circuit Data**

Compressor - Type	Scroll	[-]
Refrigerant - Type	R410a	[-]
Refrigerant - Amount	0,0	[kg]
Refrigerant - Fluid Group	2	[-]
Refrigerant - GWP	1927	[-]
Compressor Oil - Type	3MA-POE	[-]
Compressor Oil - Amount	1,18	[l]

**Heating Side**

Condenser - Type	Plate heat exchanger	[-]
Condenser - Material	Stainless steel, copper brazed	[-]
Condenser - Flowrate (5K)	3,0	[m³/h]
Condenser pressure loss	9,6	[kPa]
Circulation pump - Type	external circulation pump	[-]
Circulation pump - residual head	-	[mWs]
Circulation pump - max. power	-	[W]

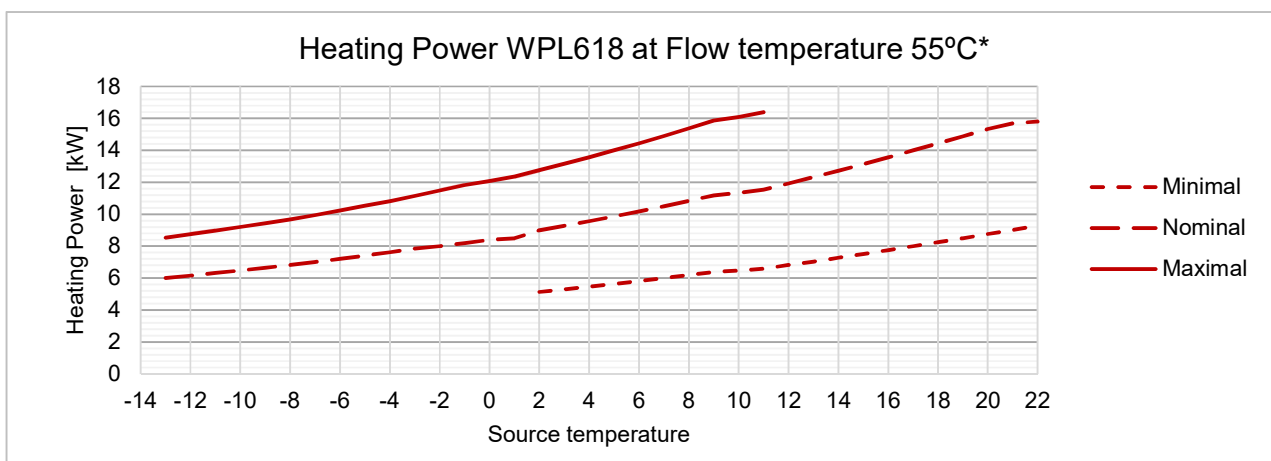
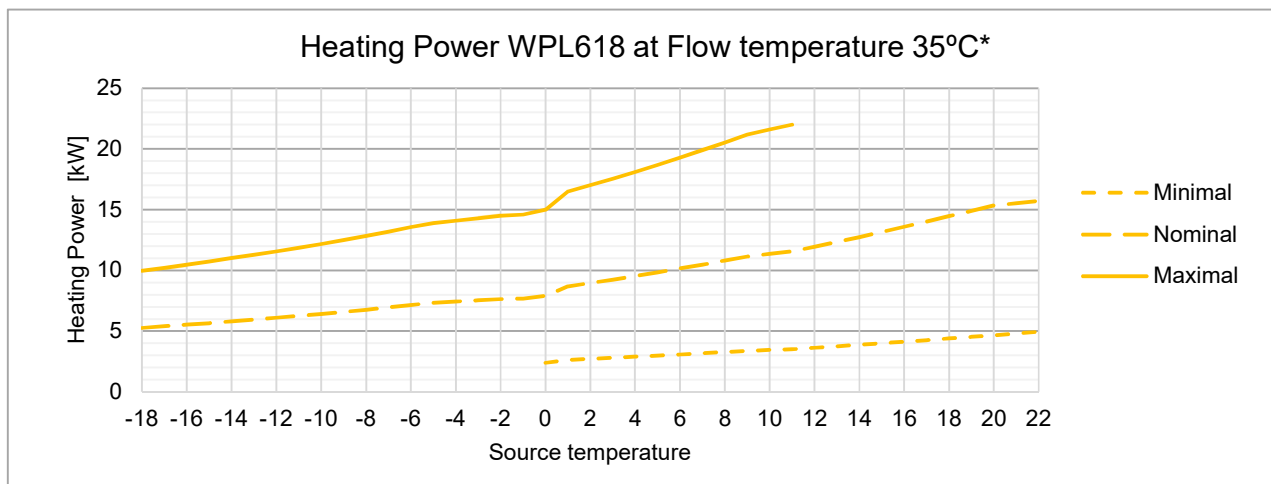
**Source Side**

Evaporator - Type	Lamella heat exchanger	[-]
Evaporator - Material	Copper / Aluminium lamella	[-]
Evaporator - Flowrate (3K)	6500,0	[m³/h]
Evaporator - Pressure loss	25,0	[kPa]
Source - Type	Axial fan	[-]
Source - residual head	-	[mWs]
Source - max. Power	290	[W]

**Performance Data\***

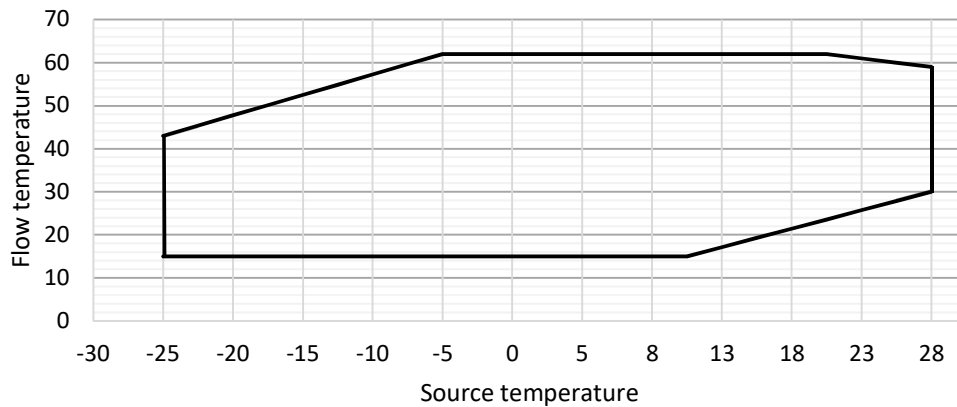
Operating point	Comp. speed	Heating capacity	Cooling capacity	Rated Input	COP
A10/W35	33%	7,5	6,1	1,4	5,31
A7/W35	33%	7,3	5,8	1,4	5,08
A2/W35	52%	9,0	6,7	2,3	3,91
A2/W35	100%	17,2	12,5	4,7	3,68
A-7/W35	88%	12,6	8,5	4,1	3,06
A-7/W52	100%	9,9	5,6	4,3	2,32
A20/W55	Minimal	9,0	6,6	2,4	3,79

Climate: warmer	35°C	SCOP	5,23
		$\eta_s$	206
	55°C	SCOP	3,96
		$\eta_s$	155
Climate: average	35°C	SCOP	4,55
		$\eta_s$	179
	55°C	SCOP	3,59
		$\eta_s$	141
Climate: colder	35°C	SCOP	4,02
		$\eta_s$	158
	55°C	SCOP	3,22
		$\eta_s$	125



\* Compressive performance deviations of up to 10% are possible. All informations without guarantee: typographical and printing errors reserved.

## Operating limit

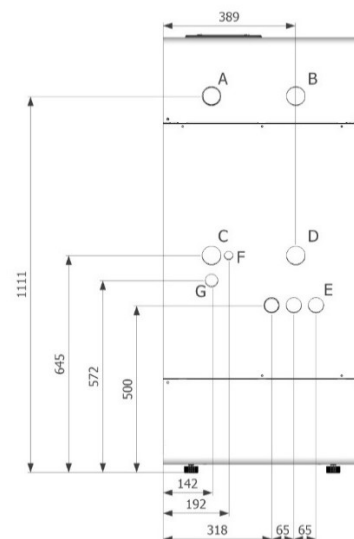


## Connection measurements

Heat Pump Dimensions (H x W x D) [mm] 1.350 x 600 x 650

Heat Pump Weight [kg] 167

- A: not in usage
- B: Heating Outlet, G1" MT
- C: not in usage
- D: Heating Inlet, G1" FT
- E: Electrical Inlet
- F: Connection Injection pipe, 12mm
- G: Connection Suction pipe, 22mm



## Free spaces

- A: 400mm
- B: 400mm
- C: 200mm
- D: 600mm
- E: 400mm

