

TECHNISCHE DATASHEET

LWPT 829 Monoblock 400V

AT-TEC
WARMTEPOMPEN



General Data

Power Range	A2/W35: 14 - 23	[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	IPX3	[-]
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	3/N/PE, 400V, 50Hz	[V, Hz]
Operating current compressor	6,94	[A]
Starting current compressor	30 / -	[A / A]
Cos(φ) compressor	0,90	[-]
Fuse compressor	3x C32	[-]

Sound power level Data acc. EN12102

Nom. Sound power level heat pump	-	[dB(A)]
Max. Sound power level heat pump	-	[dB(A)]

Refrigerant circuit Data

Compressor - Type	Scroll	[-]
Refrigerant - Type	R410a	[-]
Refrigerant - Amount	8,0	[kg]
Refrigerant - Fluid Group	2	[-]
Refrigerant - GWP	1927	[-]
Compressor Oil - Type	FV50S	[-]
Compressor Oil - Amount	1,90	[l]

Heating Side

Condenser - Type	Plate heat exchanger	[-]
Condenser - Material	Stainless steel, copper brazed	[-]
Condenser - Flowrate (5K)	3,6	[m³/h]
Condenser pressure loss	11,0	[kPa]
Circulation pump - Type	integrated circulation pump	[-]
Circulation pump - residual head	8,00	[mWs]
Circulation pump - max. power	180,00	[W]

Source Side

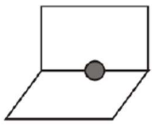
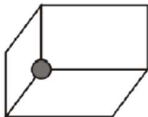
Evaporator - Type	Lamella heat exchanger	[-]
Evaporator - Material	Copper / Aluminium lamella	[-]
Evaporator - Flowrate (3K)	15000,0	[m³/h]
Evaporator - Pressure loss	25,0	[kPa]
Source - Type	Axial fan	[-]
Source - residual head	-	[mWs]
Source - max. Power	440	[W]

Sound Power Data acc. EN12102
Max. Compressor Speed 100%

Mode*	Sound power level	Directing factor Q	Sound pressure dep. on distance[m] to heat pump								
	Maximum at A-7/W55		1	2	4	5	6	8	10	12	15
	[dB(A)]		[dB]								
Standard	68	2	60	54	48	46	45	42	40	39	37
		4	63	57	51	49	48	45	43	42	40
		8	66	60	54	52	51	48	46	45	43
Silent	64,9	2	56,9	50,9	44,9	42,9	41	38,9	36,9	35	33
		4	59,9	53,9	47,9	45,9	44	41,9	39,9	38	36
		8	62,9	56,9	50,9	48,9	47	44,9	42,9	41	39

* If the standard mode is activated, the fan is operating at normal speed.

In silent mode, this speed is reduced by about 25% to reduce the noise emissions.

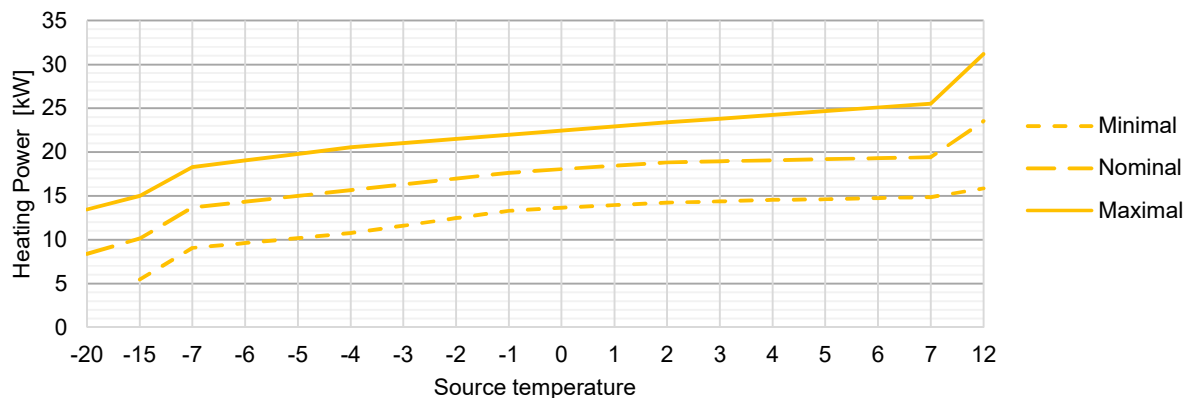
	Directing factor Q=2 describes a hemispherical radiating sound source. The sound waves are only reflected by the floor surface.
	Richtfaktor Q=4 describes a quarter spherical radiating sound source. The sound waves are reflected by the floor and a wall surface.
	Richtfaktor Q=8 describes an eight-spherical radiating sound source. The sound waves are reflected by the floor and two wall surfaces.

Performance Data*

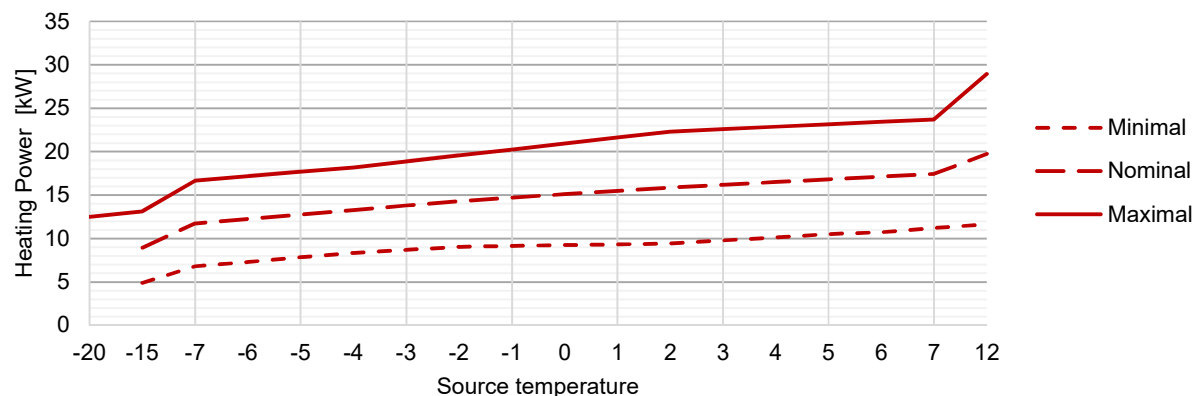
Operating point	Comp. speed	Heating capacity	Cooling capacity	Rated Input	COP
A10/W35	0%	0,0	0,0	0,0	0,00
A7/W35	50%	19,4	15,6	3,8	5,13
A2/W35	Nominal	18,8	14,5	4,3	4,34
A2/W35	Maximal	23,4	16,8	6,6	3,56
A-7/W35	Maximal	18,3	12,1	6,2	2,96
A-7/W52	0%	0,0	0,0	0,0	0,00
A20/W55	0%	0,0	0,0	0,0	0,00

Climate: warmer	35°C	SCOP	-
		η_s	-
	55°C	SCOP	-
		η_s	-
Climate: average	35°C	SCOP	4,61
		η_s	180,1
	55°C	SCOP	3,6
		η_s	141
Climate: colder	35°C	SCOP	-
		η_s	-
	55°C	SCOP	-
		η_s	-

Heating Power WPLT829 bei Vorlauftemperatur 35°C*

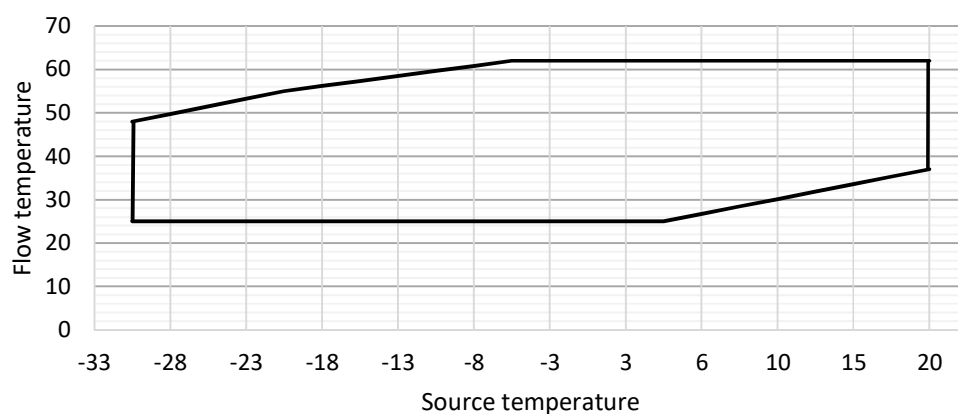


Heating Power WPLT829 bei Vorlauftemperatur 55°C*



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

Operating limit



Connection measurements

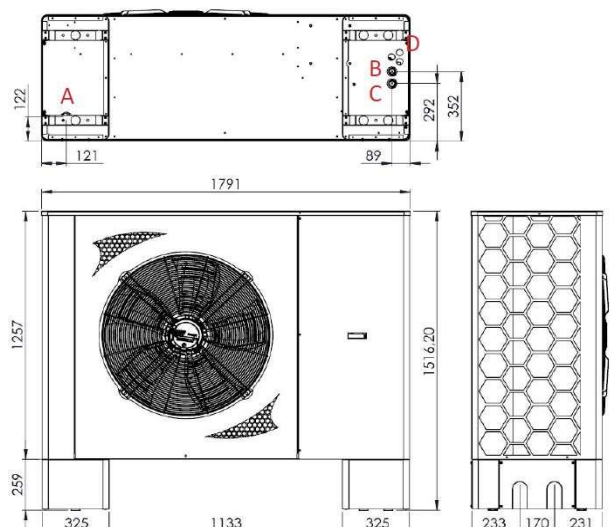
Heat Pump Dimensions (H x W x D)

[mm] 1.516 x 1.791 x 641

Heat Pump Weight

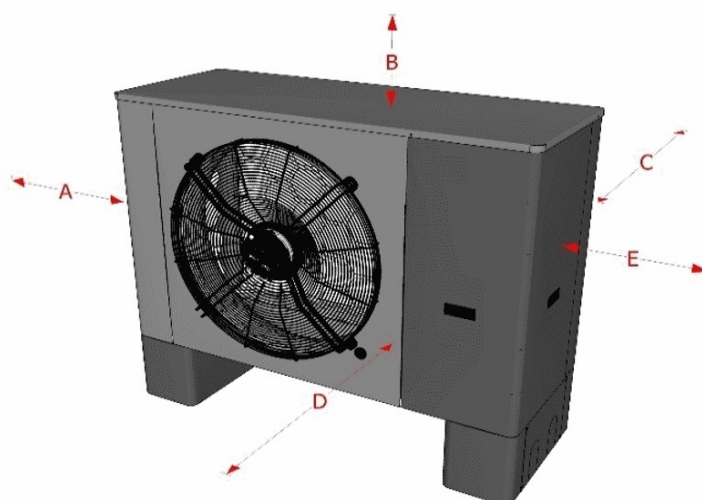
[kg] 280

- A: drain pipe
- B: Heating Outlet, G1" MT
- C: Heating Inlet, G1" FT
- D: Electrical Inlet

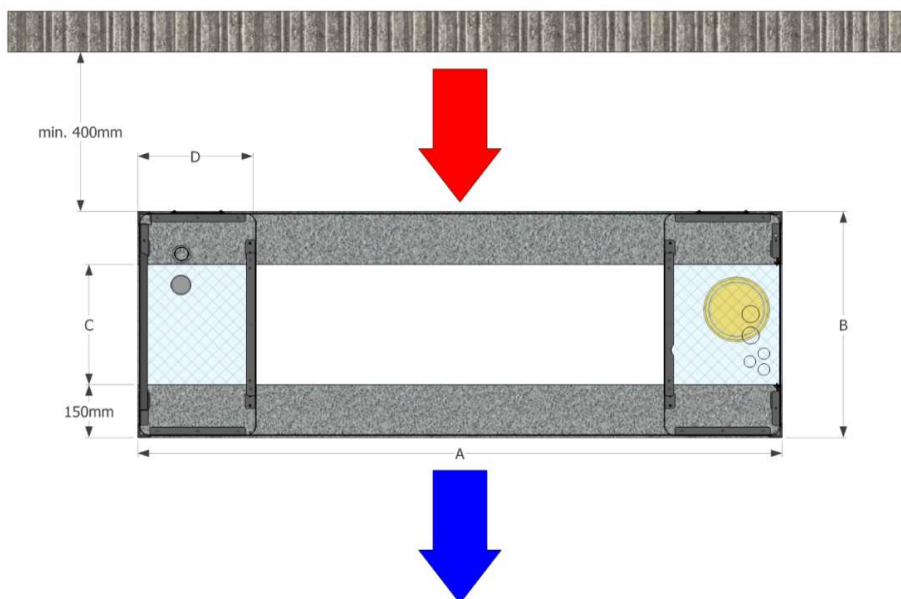


Free spaces

- A: 400mm
- B: 400mm
- C: 400mm
- D: 3000mm
- E: 800mm

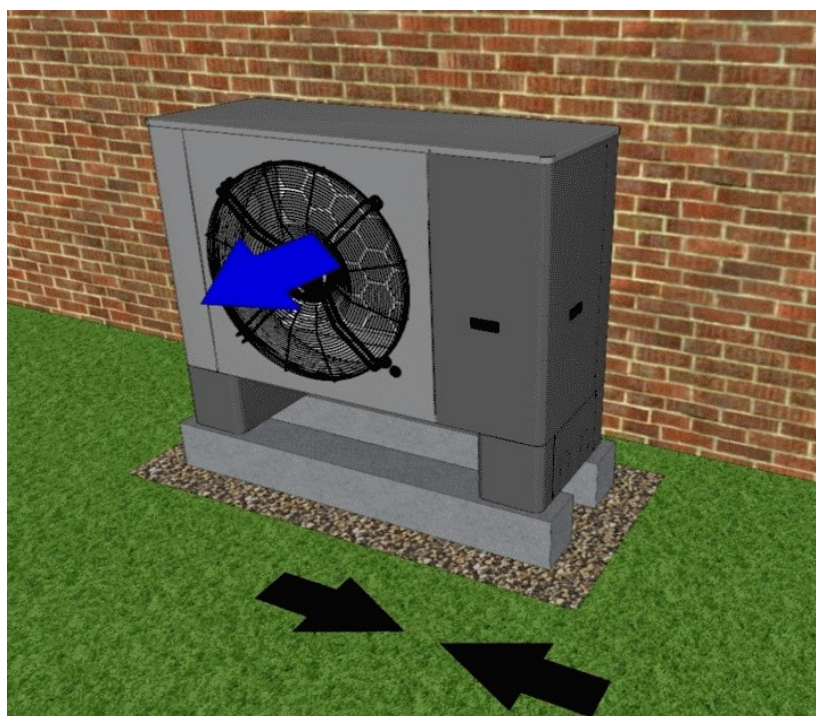


Basement dimension



A:	1790mm
B:	640mm
C:	340mm
D:	320mm

Observe the main wind direction to avoid unwanted flow through the evaporator!



General installation and assembly criteria must be observed in accordance with the valid operating instructions.