

NDA[®] PREMIUM

ENERGY from the air



Product details:

- Air/water heat pump for central heating and domestic hot water heating, suitable for cascades
- Greatest efficiency among all manufacturers according to BAFA list 2014/2015
- Plug&Heat[®] - plug in and heat
- Can be positioned entirely outdoors (HookUp); with option to install heat pump indoors
- 'Silent mode' and large evaporator unit for barely audible operation
- Remote monitoring with WEBDIALOG[®] (web-enabled control) for a NEURA PREMIUM guarantee of up to 10 years
- On-site consumption of own PV power can be optimised
- Flow temperatures up to 62°C
- Operative range down to - 20°C





Specification

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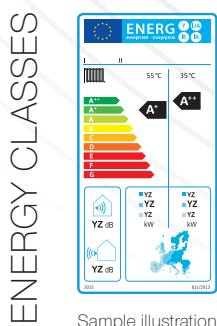
	Air/water heat pumps NDA® PREMIUM											
	Models		L06EuC		L08EuC		L10EuC		L14EuC		L18EuC	L20EuC
			400 V	230 V	400 V	230 V	400 V	230 V	400 V	230 V	400 V	400 V
Heat pump dimensions H x W x D [mm]	815 x 970 x 535											
Evaporator type	PREMIUM 1										PREMIUM 2	
Evaporator dimensions H x W x D [mm]	1087 x 1449 x 1030										1087 x 2598 x 1030	
Weight [kg]	100		105		110		115		120			
Refrigerant	R410A											
Sound power level heat pump [dB(A)]	50											
Sound power level Evaporator [dB(A)]	58		58		64		67		62		67	
Sound pressure level* [dB(A)]**	36		36		42		45		40		45	
Mains current MCB/fuse protection [A]	3 x C16	1 x C25	3 x C16	1 x C25	3 x C16	1 x C32	3 x C16	1 x C32	3 x C16	3 x C16		
Control unit MCB/fuse protection [A]	1 x C13											
Hydraulic connection [inch]	5/4 union nut											
Max. flow temperature [°C]	up to 62											

Performance data to EN 14825

Climate: warmer	SCOP _{35°C}	5.1	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.3
	η _{s 35°C} [%]	199.5	199.3	203.6	204.3	204.5	204.0	206.5	206.2	203.2	209.1
	SCOP _{55°C}	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9
	η _{s 55°C} [%]	155.5	155.6	156.8	156.3	155.3	155.3	155.7	156.2	152.8	153.8
Climate: average	SCOP _{35°C}	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.4	4.3
	η _{s 35°C} [%]	167.7	167.4	169.4	171.3	169.3	169.4	168.1	168.9	172.1	169.7
	SCOP _{55°C}	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.4	3.4	3.3
	η _{s 55°C} [%]	131.6	131.5	132.3	133.0	131.7	131.8	130.5	131.2	131.9	130.0
Climate: colder	SCOP _{35°C}	3.8	3.8	3.8	3.8	3.9	3.9	3.8	3.8	3.9	3.9
	η _{s 35°C} [%]	148.0	147.8	150.1	149.8	151.1	151.2	149.2	149.6	153.0	151.2
	SCOP _{55°C}	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	η _{s 55°C} [%]	120.3	120.2	120.7	121.0	120.8	120.8	119.4	119.7	120.8	119.6

Performance data to EN 14511

A7/W35	Heating output [kW]	6.9	6.9	9.3	8.7	12.0	12.0	15.9	15.9	19.7	24.4
	Power consumption [kW]	1.35	1.35	1.84	1.71	2.38	2.38	3.22	3.21	4.03	4.87
	Coefficient of performance - COP	5.1	5.1	5.1	5.1	5.0	5.0	4.9	5.0	4.9	5.0
A7/W55	Heating output [kW]	6.0	6.0	8.2	7.7	10.4	10.4	14.4	14.4	15.5	21.2
	Power consumption [kW]	1.9	1.9	2.75	2.67	3.7	3.7	5.28	5.24	5.88	8.43
	COP	3.2	3.2	3.0	2.9	2.8	2.8	2.7	2.8	2.6	2.5
A2/W35	Heating output [kW]	5.8	5.9	8.2	7.7	10.1	8.9	14.4	13.6	17.1	20.0
	Power consumption [kW]	1.36	1.36	1.92	1.77	2.39	2.10	3.43	3.17	3.96	4.68
	Coefficient of	4.3	4.3	4.3	4.4	4.2	4.2	4.2	4.3	4.3	4.3
A2/W55	Heating output [kW]	5.3	5.3	7.4	7.4	8.9	8.9	12.8	12.8	14.8	18.1
	Power consumption [kW]	2.08	2.08	2.88	2.90	3.55	3.52	5.20	5.14	6.28	7.73
	COP	2.5	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.3
A-7/W35	Heating output [kW]	4.5	4.5	6.1	5.8	8.0	8.0	10.5	10.5	13.6	14.9
	Power consumption	1.33	1.33	1.81	1.67	2.39	2.39	3.20	3.20	4.10	4.49
	COP	3.4	3.4	3.4	3.5	3.3	3.3	3.3	3.3	3.3	3.3



Models	L06EuC		L08EuC		L10EuC		L14EuC		L18EuC	L20EuC
	400 V	230 V	400 V	230 V	400 V	230 V	400 V	230 V	400 V	400 V
Flow 35 °C	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Flow 55 °C	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++

* at 5 m distance in free field
** Activation of silent mode leads to further reduction in sound emissions down to 6 dB(A)

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