

adphos MPP-xx

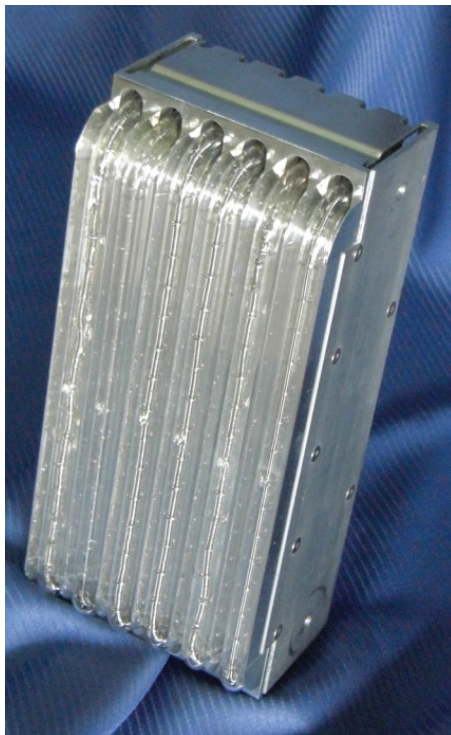
Compact High Power adphosNIR® Heating Systems

Product Description:

Within smallest space environment the adphos-MPP-xx product family generates up to 1.0 MW/m². Due to its easy handling the MPP-xx product family can be integrated easily into new and existing machines where high power densities have to be applied in very restricted space and cost efficient applications. This is used in the plastic, paper and steel industry today.

The MPP-xx are available in a width of 20 mm to 600 mm and for emitters with an length of 125 mm and 250 mm (other dimensions possible on request). In addition MPP-xx starting with a width of 60 mm and are available with a glass plate or prevent pollution of the emitters and reflectors.

If there is at your site already a cooling water infrastructure, this is exactly the right system for your application.



Features:

- Easy mechanical integration due to compact design and several mounting points
- Easy electrical integration due to prefabricated cables (approx 1.5 m)
- Depending on the application, there are different NIR-emitter types and module sizes available
- Instant ON-OFF possible - no pre-heating necessary

Fields of Application:

- Drying and curing of colours, lacquers and glues on even surfaces
- Heating up of metal or plastic parts
- Drying of inkjet printing
- Curing of resin imbued paper and textile

adphoS

uv

10nm

visible

.38 µm



0.8 µm

1.5 µm

1.2 µm
short wave

2 µm
medium wave

ir

3 µm
long wave

Technical Data:

MPP-Module U-125:

Type	MPP-20	MPP-60	MPP-120	MPP-240	MPP-360	MPP-480	MPP-600
Emitter type	U-125	U-125	U-125	U-125	U-125	U-125	U-125
Heated width (BB) [mm]	20	60	120	240	360	480	600
Heated length (LB) [mm]	125	125	125	125	125	125	125
Module width (BM) [mm] (without glass plate)	20	140	200	320	440	560	680
Module with (BM) [mm] (with glass plate)	-	180	240	360	480	600	720
Module length (LM) [mm] (without glass plate)	150	269	269	269	269	269	269
Module length (LM) [mm] (with glass plate)	-	269	269	269	269	269	269
Module height (HM) [mm] (without glass plate)	100	150	150	150	150	150	150
Module height (HM) [mm] (with emitter end cooling and glass plate)	-	200	210	220	230	240	250
Weight [kg]	0,5	9	15	23	31	39	48
Amount of emitter	1	3	6	12	18	24	30
Cooling water volume [l/min]	1,2	3,5	7,0	14	21	28	35
Cooling air volume with glass [m ³ /min]	-	0,7	1,3	2,6	3,9	5,2	6,5
Cooling air connection with glass plate [mm]	-	50	50	80	80	100	100
Cooling water connection	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"



Technical Data:

MPP-Module U-250:

Type	MPP-20	MPP-60	MPP-120	MPP-240	MPP-360	MPP-480	MPP-600
Emitter type	U-250	U-250	U-250	U-250	U-250	U-250	U-250
Heated width (BB) [mm]	20	60	120	240	360	480	600
Heated length (LB) [mm]	250	250	250	250	250	250	250
Module width (BM) [mm] (without glass plate)	20	140	200	320	440	560	680
Module width (BM) [mm] (with glass plate)	-	180	240	360	480	600	720
Module length (LM) [mm] (without glass plate)	275	394	394	394	394	394	394
Module length (LM) [mm] (with glass plate)	-	394	394	394	394	394	394
Module height (HM) [mm] (without glass plate)	100	150	150	150	150	150	150
Module height (HM) [mm] (with emitter end cooling and glass plate)	-	200	210	220	230	240	250
Weight [kg]	0,75	12	20	30	40	51	62
Amount of Emitter	1	3	6	12	18	24	30
Cooling water volume [l/min]	1,2	3,5	7,0	14	21	28	35
Cooling air volume with glass plate [m ³ /min]	-	0,7	1,3	2,6	3,9	5,2	6,5
Cooling air connection with glass plate [mm]	-	50	50	80	80	100	100
Cooling water connection	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"



Order Code of the Available Systems:

	MPP-20	MPP-60	MPP-120	MPP-240	MPP-360	MPP-480	MPP-600	Power for each Emitter [KW]
Amount of emitter (need to be multiplied with emitter power to get the total power consumption for choosing the corresponding power supply)	1	3	6	12	18	24	30	
250 mm emitter (U-250) without glass plate								
LB-08-250	501001	501002	501003	501004	501005	501006	501007	0.800
NB-12-250	501008	501009	501010	501011	501012	501013	501014	1.250
NB-18-250	501015	501016	501017	501018	501019	501020	501021	1.875
HB-25-250	501022	501023	501024	501025	501026	501027	501028	2.500
HB-31-250	501029	501030	501031	501032	501033	501034	501035	3.125
HB-35-250	501036	501037	501038	501039	501040	501041	501042	3.500
250 mm emitter (U-250) with glass plate								
LB-08-250		501043	501044	501045	501046	501047	501048	0.800
NB-12-250		501049	501050	501051	501052	501053	501054	1.250
NB-18-250		501055	501056	501057	501058	501059	501060	1.875
HB-25-250		501061	501062	501063	501064	501065	501066	2.500
HB-31-250		501067	501068	501069	501070	501071	501072	3.125
HB-35-250		501073	501074	501075	501076	501077	501078	3.500
125 mm emitter (U-125) without glass plate								
NB-05-125*	502001	502002	502003	502004	502005	502006	502007	0,500
NB-12-125	502008	502009	502010	502011	502012	502013	502014	1.250
125 mm emitter (U-125) with glass plate								
NB-05-125*		502015	502016	502017	502018	502019	502020	0,500
NB-12-125		502021	502022	502023	502024	502025	502026	1.250

*The NB-05-125 emitter is designed for a 230 V power supply. When ordering a power supply for this type of emitters, please mention in your order "Power supply suitable for NB-05-125".

All here mentioned data are subject to changes due to product optimisation
(PDB MPP_01en-07/2015)

