AMICUS LAHP-402WW PRODUCT FICHE

According regulations 811/2013 and 812/2013

Model			LAHP-402WW
Energy class	A++		
Water-to-water heat pump	Yes		
Low-temperature heat pump	No		
Supplementary heater	No		
Heat pump combination heater	No		
			Low Temperature
Item	**Symbol**	**Value**	**Units of measurement**
Rated heat output	Prated	49.46	[kW]
Tj = -7 [°C]	Pdh	43.75	[kW]
Tj = 2 [°C]	Pdh	26.63	[kW]
Tj = 7 [°C]	Pdh	23.35	[kW]
Tj = 12 [°C]	Pdh	23.61	[kW]
Tj = -7 [°C]	Pdh	43.75	[kW]
Tbivalent	Tbiv	-7	[°C]
Cycling interval capacity for heating	Pcych	-	[kW]
Degradation coefficient	Cdh	0.878	[-]
Power consumption in off mode	Poff	0.02	[kW]
Power consumption in thermostat-off mode	Pto	0.28	[kW]
Power consumption in standby mode	Psb	0.02	[kW]
Power consumption in crankcase heater mode	Pck	0.132	[kW]
Capacity control		Step	
Sound power level, indoor/outdoor measured	Lwa	0/0	[dB(A)]
Emissions of nitrogen oxides	NOx	0	[mg/kWh]
Seasonal space heating energy efficiency	ηs	225.300	[%]
Tj = -7 [°C]	COPd	5.961	[-]
Tj = 2 [°C]	COPd	6.347	[-]
Tj = 7 [°C]	COPd	6.671	[-]
Tj = 12 [°C]	COPd	6.956	[-]
Tj = -7 [°C]	COPd	5.961	[-]
Cycling interval efficiency	COPcyc	-	[-]
Heating water operating limit temperature	WTOL	80	[°C]
Rated water flow rate		10.39	[m³/h]
Heating energy demand		69238	[kWh]
Total electrical consumption		11871	[kWh]
SCOP		5.833	[-]
Climatic condition		Average	

LOCHINVAR®
HIGH EFFICIENCY BOILERS & WATER HEATERS

AMICUS LAHP-402WW PRODUCT FICHE

According regulations 811/2013 and 812/2013

Model			LAHP-402WW
Energy class	A++		
Water-to-water heat pump	Yes		
Low-temperature heat pump	No		
Supplementary heater	No		
Heat pump combination heater	No		
			High Temperature
Item	**Symbol**	**Value**	**Units of measurement**
Rated heat output	Prated	45.9	[kW]
Tj = -7 [°C]	Pdh	40.6	[kW]
Tj = 2 [°C]	Pdh	24.71	[kW]
Tj = 7 [°C]	Pdh	22.29	[kW]
Tj = 12 [°C]	Pdh	22.76	[kW]
Tj = -7 [°C]	Pdh	40.6	[kW]
Tbivalent	Tbiv	-7	[°C]
Cycling interval capacity for heating	Pcych	-	[kW]
Degradation coefficient	Cdh	0.9157	[-]
Power consumption in off mode	Poff	0.02	[kW]
Power consumption in thermostat-off mode	Pto	0.1689	[kW]
Power consumption in standby mode	Psb	0.02	[kW]
Power consumption in crankcase heater mode	Pck	0.132	[kW]
Capacity control		Step	
Sound power level, indoor/outdoor measured	Lwa	0/0	[dB(A)]
Emissions of nitrogen oxides	NOx	0	[mg/kWh]
Seasonal space heating energy efficiency	ηs	181.100	[%]
Tj = -7 [°C]	COPd	4.032	[-]
Tj = 2 [°C]	COPd	5.027	[-]
Tj = 7 [°C]	COPd	5.674	[-]
Tj = 12 [°C]	COPd	6.355	[-]
Tj = -7 [°C]	COPd	4.032	[-]
Cycling interval efficiency	COPcyc	-	[-]
Heating water operating limit temperature	WTOL	80	[°C]
Rated water flow rate		8.505	[m³/h]
Heating energy demand		64257	[kWh]
Total electrical consumption		13591	[kWh]
SCOP		4.728	[-]
Climatic condition		Average	