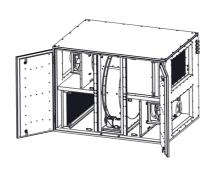




HR Rotor-5000Bi

Artikel 1668



		Supply	Extract
Air flow	[m ³ /h]	5000	5000
External pressure	[Pa]	250	250
Inlet temperature, summer	[°C]	28	21
Relative humidity, summer	[%]	50	60
Inlet temperature, winter	[°C]	-10	21
Relative humidity, winter	[%]	95	50
Linit SEP	[\\\/(m ³ /s\]	1573 96	

Unit SFP	[W/(m ³ /s)]	1573.96





Heat exchanger, summer

Supply			Extract		
Temperature after heat exchanger	[°C]	22.53	Temperature after heat exchanger	[°C]	26.47
Relative humidity after heat exchanger	[%]	69.23	Relative humidity after heat exchanger	[%]	43.17
Exchange efficiency dry	[%]	78.12	Exchange efficiency dry	[%]	78.1
Exchange efficiency wet	[%]	0	Exchange efficiency wet	[%]	0
Heat recovery wet	[kW]	-9.28			

Heat exchanger, winter

Supply		Extract						
Temperature after heat exchanger	[°C]	14.2	Temperature after heat exchanger	[°C]	-3.05			
Relative humidity after heat exchanger	[%]	32.82	Relative humidity after heat exchanger	[%]	100			
Exchange efficiency dry	[%]	78.07	Exchange efficiency dry	[%]	77.6			
Exchange efficiency wet	[%]	28	Exchange efficiency wet	[%]	77			
Heat recovery wet	[kW]	47.63						

Fans, winter

EC fan, backward curved impeller Rated power = 1320W(1,8Hp)

Phase/voltage [50/60Hz/VAC] ~3, 380/480

Sound pressure level at 3 meters to environment 44 db(A)

Insulation class B

Motor protection class IP 54

Motor protection class in 54					
Supply fan, winter			Extract fan, winter		
RPM	[1/min]	1211.24	RPM	[1/min]	1226.97
Electric power consumption	[W]	1074.08	Electric power consumption	[W]	1111.97
Current, A	[A]	1.71	Current, A	[A]	1.77
Total fan pressure, Pa	[Pa]	475.12	Total fan pressure, Pa	[Pa]	492.12
Static fan pressure, Pa	[Pa]	451.04	Static fan pressure, Pa	[Pa]	468.04
Static fan efficiency η es	[%]	58.32	Static fan efficiency η es	[%]	58.46
Airflow at operating point	[m ³ /h]	5000	Airflow at operating point	[m ³ /h]	5000
Power rated	[W]	1320	Power rated	[W]	1320
Current rated	[A]	2.1	Current rated	[A]	2.1
Control voltage	[V]	8.95	Control voltage	[V]	9.06
Sound pressure level to environment @3m	[dB(A)]	30.12	Sound pressure level to environment @3m	[dB(A)]	30.39

Fans sound power, winter Lw, (dB) Fans sound power, winter Lw, (dB)

1 4113 3	Juli	y pi	J 44 C I	.,		_,,,	uD,			rans sound power, whiter Ew, (ab)									
6 l		-	Oct	ave fi	reque	ncy ba	nds [H	z]		6		_	Oct	ave fr	eque	ncy ba	nds [Hz	<u>/]</u>	
Sound power level	Gen.	63	125	250	500	1000	2000	4000	8000	Sound power level	Gen.	63	125	250	500	1000	2000	4000	8000
Lwa (to inlet)	68	41	51	58	62	63	62	59	53	Lwa (to inlet)	68	41	51	58	62	63	63	59	53
Lwa (to outlet)	75	43	53	60	68	72	66	62	55	Lwa (to outlet)	75	43	54	60	68	73	67	62	56
Lwa (to environment)	51	36	44	48	40	39	33	29	23	Lwa (to environment)	51	36	45	48	40	40	34	29	24

SFP, winter

Unit external SFP, real at operation point [W/(m³/s)] 1573.96

Date: 09.01.2023



Filter

Filter 603*253*48 - ePM1 70% ISO16890 / F7 EN 779:2012, panel type, PP+PET / MERV 13 (ASHRAE 52.2) Frames 9.9x23.7x1.8inch,

Dampers

Multi-blade damper for air flow control

The housing made of galvanized steel. The aluminium blades driven by plastic gearwheels. Lever with removable metal handle and fixing clamp. Standard connection flange for rectangular air ducts or other ventilation system components. Flanges should be connected with galvanized bolts and clamps.





Casing

Double skin frameless casing with 40 mm (1.5inch) mineral wool 90 kg/m3; non-flammable; outer skin: zinc-aluminum; inner skin: zinc-aluminum; EN1886 class: D1, T3, TB4. Insulation class B

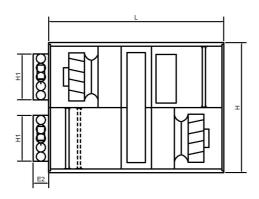
Units	L	W	Н	S	H1	E2	S1	S2
mm	1910	1390	1420	1000	500	170	505	360
inch	75	55	56	39	20	7	20	14

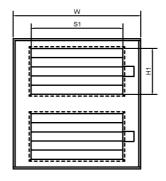
Unit Weight (without water cooler, DX coil, water heater), [Kg] - 573, [lb] - 1263

DX coil/water cooler weight, [Kg] - 79, [lb] - 174

Water heater weigh, [Kg] - 65, [lb] - 143

Electric heater weigh, [Kg] - 55, [lb] - 121







Date: 09.01.2023

ERP		
Trade mark		Air-Transfer
Model		HR Rotor-5 000B i
Declared typology		NRVU BVU
Type of drive installed		Integrated MSD
Type of heat recovery system		Rotary
Thermal efficiency of heat recovery	[%]	78.07
Supply flow rate	[m ³ /s]	1.39
Effective electric power input	[W]	2186.05
SFPint	$[W/(m^3/s)]$	717.71
Face velocity at design flow rate	[m/s]	1.61
External pressure	[Pa]	250
Internal pressure drop of ventilation components	[Pa]	201.04
Static efficiency of fans	[%]	58.32
Maximum leakage rates	[%]	2.7
Maximum leakage rates	[%]	2.7
Filtration class		В
Visual filter warning		Visual filter warning
Sound power level	[db]	50.66
Internet address		www.air-transfer.nl

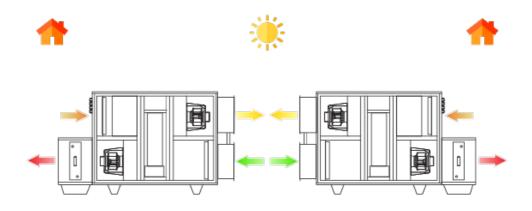
Erp 2018 compliant according to Commission Regulation EU No 1253/2014, 7 July 2014



Date: 09.01.2023

Left service side

Right service side



Supply air Fresh air Extract air Exhaust air