

Technical data GLOBAL LP FW

Version 1.52 - Mar.2018 Date : 2018/06/11. Company : To : From : agrava Subject : Reference : Page : 1/5

Model :

GLOBAL LP 2000 FW L

The GLOBAL LP FW heat recovery unit is compact unit with self-contained casing from galvanized metal sheet. The outside of the casing has a lacquered finish. The casing's insulation thickness is 30 mm. The unit is equipped with radial fans with TAC motors with low electrical consumption. On both inlet and outlet the unit is fitted with compact filters M5 (G4 for GLOBAL LP FW 450). Furthermore, the unit is equipped with counterflow heat exchangers with efficiency up to 90%, condensation tray, 100% modulating by-pass and an automatic condensation pump. Total height of the unit enables easy mounting into ceiling. Condens water does not drop into siphon but is drained away with the pump. The unit is delivered with an prewired controller. More details onour website. EN1886 Classification :

Mechanical resistance class of the envelope: D1

Thermal transmittance class U : T3

Thermal bridge class Kb : TB3

Airtightness of the envelope class (exhaust and supply airstreams) : L2 Airtightness around the filters class (exhaust and supply airstreams) : F9

Supply : Fans + Controls

Voltage :	1 x 230 V - 50 Hz
Intensity :	11,2 A max.
Electrical protection :	D16A - 10kA - AC3

Fans - TAC

Units are equipped with high efficiency TAC (Total Airflow Control) technology fans. They are driven by electronically commutated motors and allow accurate control of the fan's actual working point. The efficiency of the motor remains between 85% and 60%, whatever the working point. The motor is a permanent magnet DC driven motor but AC power supplied.

	<u>Supply</u>	<u>Exhaust</u>			name	-				5 TAC 3	3/4		
Airflow :	2000	2000	m³/h	Nur	nber of	fans :			1 + 1				
Internal pressure drop :	133	174	Pa	Sou	ind pow	er spec	ctrum (f	an only)-(dB re	e.10E-1	2 W/m²)	
External pressure drop :	200	200	Pa		63	125	250	500	1000	2000	4000	8000	Hz
Extra available pressure drop :	161	120	Pa	S	86.8	81.8	76.8	69.8	71.8	64.8	59.8	54.8	dBL
Rotation speed :	1316	1368	rpm		,	- /-	- / -	, -	,-	- 1-	/ -	- ,-	-
Voltage :	230	230	V	E	87,2	82,2	77,2	70,2	72,2	65,2	60,2	55,2	dBL
Intensity :	4,11	4,42	А	Rac	liated A	weight	ed Sou	nd pres	ssure le	vel for o	ducted	unit	
Power :	691	749	W	in fr	ee field	(d=3m)						44,4 dBA
Specific fan power, SFPv (clean filte	rs) :	2,59 kW/(m ³	³/s)	(RF=6	00000000/[DF=1/ZF=20	,),40)-(dB re	. 20 µPa)					

Controls

The units are delivered fully pre-wired as standard ('plug & play') with main switch and complete control of the unit. The latter includes all the necessary components and is fully wired to T° probes, fans, main switch, by-pass. Connect the power supply and configure the parameters and the unit is ready to run.

The controller monitors each component:

•Setting and piloting of TAC fans in selected mode: CA (constant flow), CP (constant pressure measured by an optional external sensor) or LS (link with signal 0 - 10V, for example a CO2 air quality sensor).

•Automatic freecooling control with bypass

•Antifrost system of the air/air heat echanger (airflow modulation or electrical coil). Device mounted outside the unit

•Control of external post-heating coil (water or electrical) or cooling coil (water), or reversible coil (heating or cooling water coil)

•Open/Close motorized dampers

•Time slot management (scheduling)

•Alarms management (fire, pressure, maintenance, component failure,...)

Display and management of all system parameters via TACtouch, BMS or web page (option)

•MODBUS communication (RTU, TCP/IP and GPRS) (option)





	Installers choice for 40 years	Version 1.52 - Mar.2018			
Company :			Date :	2018/06/11.	
To :			From :	agrava	
Subject :					
Reference :			Page :	2/5	
Model :	GLOBAL LP 2000 FW L	_			

Model :

Heat Recovery unit - CF

The heat exchanger is an air/air high efficiency counterflow heat exchanger, executed in sea water resistant aluminium, at a temperature of up to 80°C. The airtightness tests according to DIN1946 show a leakage rate of 0.017 % at 400 Pa difference between the 2 air streams. The heat exchanger is compliant to standard EN 308. The technical selection as presented below is realised with the Eurovent certified selection software from our supplier of the rotory heat exchanger.

Eurovent Certification Diploma Nº : 05.03.243 & 11.07.006

Updates of this document are available via: http://www.eurovent-certification.com.

Air pressure :	1013 mbar						
	Supply	Exhaust			Supply	<u>Exhaust</u>	
Airflow :	2000	2000	m³/h	Air outlet temperature :	17,7	-6,0	°C
	0,56	0,56	m³/s	Relative humidity out :	4,2	100,0	%
Airspeed through HRU :	1,64	1,93	m/s	Humidity out :	0,5	2,3	g/kg
Air inlet temperature :	-21,0	22,0	°C	Capacity (W.B.) :	26,0		kW
Relative humidity in :	90,0	40,0	%	Efficiency HRU (W.B.) :	89,9		%
Humidity in :	0,5	6,6	g/kg	Capacity (D.B.) :	23,2		kW
Pressure drop in HRU :	109	150	Pa	Efficiency HRU (D.B.) :	80,3		%

Filter - G/F

The heat recovery ventilation unit is equipped with M5 (G4 for 450) class plane filters at the inlet of the polluted air and M5 (G4 for 450) class plane filters at inlet of the fresh air, to correctly protect the heat exchanger and guarantee optimum air quality inside the building. However, the unit is originally delivered with a G4/G4 starter kit of filter. Once the unit has been running for a few weeks, filters need to be replaced by a M5/M5 (G4/G4 for 450) filters kit. Filters are easily accessible through the access doors for maintenance purposes. M5/F7 (G4/F7 for 450) filters kit are available as an additional option.

					Supply	<u>Exhaust</u>	
Filter class :	M5	Dimensions :	337 x 1250 x 50 mm	Air speed :	1,32		m/s
		Quantity :	1	Filter pressure drop :	24		Ра
Filter class :	M5	Dimensions :	337 x 1250 x 50 mm	Air speed :		1,32	m/s
		Quantity :	1	Filter pressure drop :		24	Ра

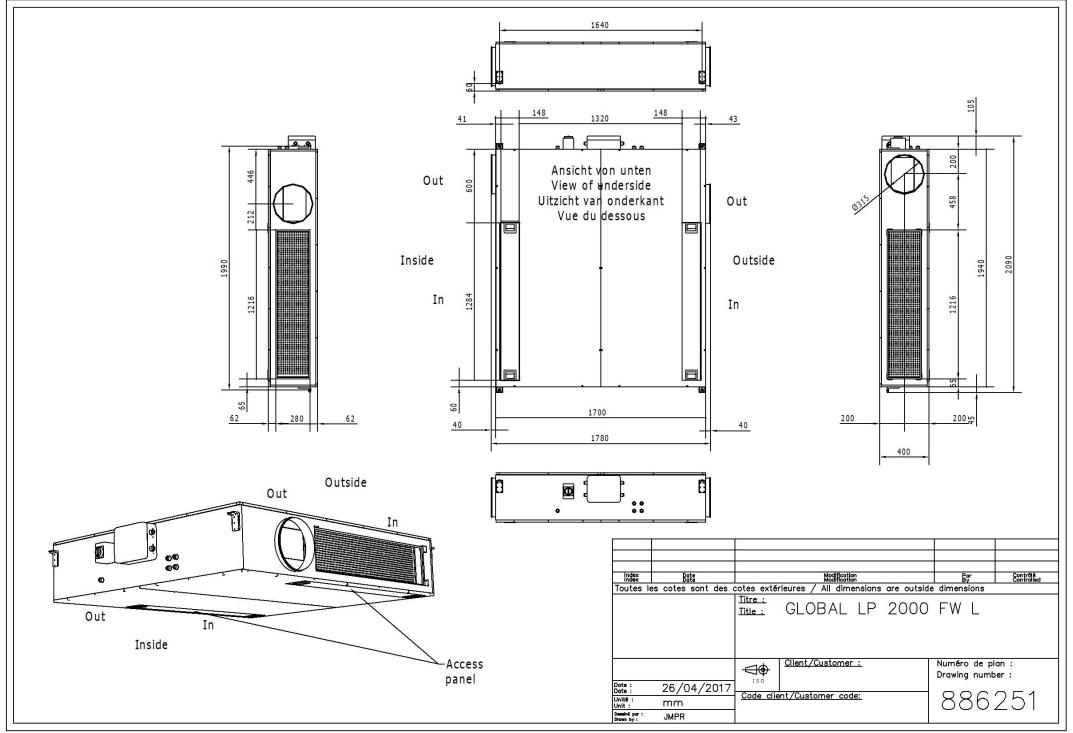
Circular outlet - SR ø 315 mm





Company : To : Subject :		Date : From :	2018/06/11. agrava
Reference :		Page :	3/5
Model :	GLOBAL LP 2000 FW L		
Manufacturing info 886251			
Detail IDCode 886251	Description GLOBAL LP 2000 FW L		
Accessories (includ	led)		
IDCode Quantity 372102 1 _370005 1			
Options (not include	ed)		
IDCode Quantity			
510101 1	GF Filter kit GLOBAL LP 2000 FW (M5/M5)		

Version 1.52 - Mar.2018



Printed by GLOBAL LP selection program (Version 1.52) - 2018/06/11.





A PLEMMENS	Version 1.52 - Mar.2018	Technical data GLO	BAL LP FW	
Company :		Date :	2018/06/11.	
To:		From :	agrava	
Subject :				
Reference :		Page :	5/5	

Model : GLOBAL LP 1600/2000 BA Empty box external coil / BA 2r+ (Heating (water) (2r))										
	e		40,0 kg 2r © 875 mm			400 mm (H) x 900 mm (B)				
Manufacturing info 882747		8	82756							
	e kit (not available	for DX co	il), this water coil will be c			sation coil (DX) (4 rows). If yo 5 unit. The 3WV kit includes c				
Heating coil - BAext+						Connection diam. :	3/4"			
Coil name : Number of rows : Number of circuits : Total capacity :	PAx 800-2 2 6 5,31	kW	Inlet air T° : Outlet air T° : Airflow : Air speed : Air pressure drop :	12,7 20,4 2000 2,52 32	°C m³/h	Fluid type : Glycol %age : Fluid T° in/out : Fluid flow : Fluid pressure drop :	3/4 Water 80,0 / 60,0 233 0,31	l/h		
Detail IDCode 882747 882756	Description GLOBAL LP 16 BA 2r+ (Heatin		BA Empty box external cc (2r))	9∐						