

		Technical Data Sheet		Code										
				GEAF2V350A-ASE										
Ing. Enea Mattei S.p.A.		PRODUCT SPECIFICATIONS		1/16/17 <i>date</i>										
				draft <i>revision</i>										
				1/2/13 <i>issue</i>										
Model				OPTIMA 200										
Description				Variable speed unit										
Arrangement				Silenced										
Series				8000 STANDARD PRODUCT										
Air End frame				M 170 X 2										
Version				n.a.										
OIL cooling medium				Air										
AIR cooling medium				Air										
Modulation				No										
Decompression				Yes										
Receiver				n.a.										
Inlet nominal pressure				ISO 1217	psi (a)	14.5								
Inlet nominal temperature				ISO 1217	°F	68								
Relative humidity				ISO 1217	%	0								
Motor nominal speed				ISO 1217	rpm	1500								
Nominal working pressure					psi (g)	min 102 - 145 max								
Maximum working pressure					psi (g)	145								
Nominal delivery				(1)	cfm	min 635.5 - 1118.2 - 1251.4 max								
Terminals absorbed power				(2) (6)	kW	203.48								
Terminals unload absorbed power					Kw	21.39								
Noise level (max)				ISO 2151 - @1 mt	dBA	75								
Oil carry over					ppm	3								
Total heat recovery (up to ...)					%	95								
Oil circuit capacity					gallons	26.4								
PERFORMANCES														
OPTIMA PERFORMANCES														
psi (g)		rpm	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	rpm
102	Flow rate	cfm	647.5	715.3	782.7	850.0	917.3	984.4	1051.3	1118.2	1185.2	1251.4	-	Delivery
	Power	kW	105.91	118.96	132.41	146.05	160.09	174.42	189.05	203.48	219.40	234.92	-	Absorbed power
116	Flow rate	cfm	643.1	710.4	777.5	844.2	911.1	977.7	1044.3	1110.6	1176.9	-	Delivery	
	Power	kW	113.03	127.07	141.40	156.03	171.06	186.38	202.00	218.02	234.43	-	Absorbed power	
131	Flow rate	cfm	639.0	705.9	772.5	838.9	905.3	971.5	1037.5	1103.6	-	-	Delivery	
	Power	kW	119.55	134.38	149.61	165.13	181.04	197.26	213.86	230.87	-	-	Absorbed power	
145	Flow rate	cfm	635.5	701.7	768.1	834.1	900.2	965.9	1031.7	1097.2	-	-	Delivery	
	Power	kW	125.39	140.91	156.92	173.23	189.94	206.94	224.44	242.24	-	-	Absorbed power	
ELECTRICAL CHARACTERISTICS														
Electric certification							-	UL/CSA						
Starting type							-	INVERTER						
Voltage -- Frequency -- Phases							V / Hz / Ph	400-460 / 50-60 / 3						
Auxiliary circuit tension							V	110						
Nominal absorbed current							(6)	A	337.6					
Minimum supply cables section (33 ft.)								AWG	4					
MAIN MOTOR														
Nominal power input							kW / HP	200 / 275						
Efficiency class							-	IE3						
Efficiency							%	96.2						
Poles							-	4						
Protection index							IP	55						
Insulation class							-	F						
COOLING														
Maximum ambient temperature							°F	104						
Minimum ambient temperature							°F	34						
Outlet AIR temperature							(5)	°F	< 86					
OIL maximum temperature								°F	248					
OIL minimum temperature								°F	176					
Fan type							-	Centrifugal						
Cooling AIR flow (minimum)							(3)	cfm	11301					
Cooling AIR flow (maximum)							(4)	cfm	28664					
Heat Removal Oil and Aftercooler							(4)	Btu/hr	694477					
Fan residual head (minimum)							(3)	Pa	-					
Fan residual head (maximum)							(4)	Pa	80					
Fan absorbed power (minimum)							(3)	kW	3.2					
Fan absorbed power (maximum)							(4)	kW	4.4					
WATER flow								gpm	-					
Water INLET temperature								°F	-					
Water OUTLET maximum temperature								°F	-					
Water minimum suggested pressure								psi (g)	-					
Thermal recoverable power								Kcal	-					
DRYER														
Refrigerant gas							-	-						
Dew point (pressure)							°F	-						
Absorbed power							kW	-						
Regeneration air percentage							%	-						
Supply: Voltage - frequency - phases							V / Hz / Ph	-						
DIMENSIONS														
AIR outlet connection							-	ANSI 5" Class 300						
Condensate separator drain connection							-	ANSI 5" Class 300						
Condensate drain connection							-	-						
Condensate DRYER drain connection							-	-						
Receiver condensate drain connection							-	-						
INLET-OUTLET water connections							-	-						
Storage AIR receiver volume							gallons	n.a.						
Width							inch	70						
Length							inch	106						
Height							inch	88						
Weight							lbs	10.472						
NOTES														
(1) - Accordina to ISO 1217 - Annex C (fixed speed) & Annex E (variable speed)														
(2) - Fan included (@ first speed if available) - Dryer input power excluded														
(3) - Fan @ lower speed (OPTIMA @ min speed)														
(4) - Fan @ faster speed (Optima : fan @50Hz)														
(5) - @ reference conditions														
(6) - OPTIMA @ 1500 rpm and 102 psi														