

		Technical Data Sheet		Code										
				GEAF6T350A-ASE										
Ing. Enea Mattei S.p.A.		PRODUCT SPECIFICATIONS		4/1/17		date								
				draft		revision								
				1/2/13		issue								
Model				OPTIMA 75										
Description				Variable speed unit										
Arrangement				Silenced										
Series				4000 STANDARD PRODUCT										
Air End frame				M 170										
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 234.3 - 404.5 - 452.7 max								
Terminals absorbed power				(2) (6)	kW	78.98								
Terminals unload absorbed power					Kw	13.00								
Noise level (max)				ISO 2151 - @1 mt	dBA	68								
Oil carry over					ppm	3								
Total heat recovery (up to ...)					%	95								
Oil circuit capacity					gallons	13.5								
PERFORMANCES														
OPTIMA PERFORMANCES														
psi (g)		rpm	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	rpm
102	Flow rate	cfm	234.3	258.7	283.2	307.5	331.8	356.1	380.3	404.5	428.6	452.7	-	Delivery
	Power	kW	39.5	44.8	50.0	55.5	61.2	67.0	73.0	79.0	85.5	92.1	-	Absorbed power
116	Flow rate	cfm	232.4	256.7	280.9	305.1	329.2	353.3	377.3	401.3	425.2	-	-	Delivery
	Power	kW	42.3	47.8	53.5	59.3	65.4	71.6	78.1	84.5	91.3	-	-	Absorbed power
131	Flow rate	cfm	230.8	254.9	279.0	302.9	326.9	350.8	374.7	398.5	-	-	-	Delivery
	Power	kW	44.8	50.6	56.6	62.9	69.2	75.9	82.5	89.5	-	-	-	Absorbed power
145	Flow rate	cfm	229.4	253.4	277.3	301.1	325.0	348.7	372.5	396.1	-	-	-	Delivery
	Power	kW	47.0	53.1	59.4	66.0	72.6	79.6	86.5	93.8	-	-	-	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 137.3						
Minimum supply cables section (33 ft.)								AWG 1						
MAIN MOTOR														
Nominal power input								kW / HP 75 / 100						
Efficiency class								IE3						
Efficiency								%						
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 4414						
Cooling AIR flow (maximum)				(4)				cfm 9417						
Heat Removal Oil and Aftercooler				(4)				Btu/hr 269547						
Fan residual head (minimum)				(3)				Pa -						
Fan residual head (maximum)				(4)				Pa 80						
Fan absorbed power (minimum)				(3)				kW -						
Fan absorbed power (maximum)				(4)				kW 2.2						
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								Rp 2"						
Condensate separator drain connection								Rp 2"						
Condensate drain connection								-						
Condensate DRYER drain connection								-						
Receiver condensate drain connection								-						
INLET-OUTLET water connections								-						
Storage AIR receiver volume								gallons n.a.						
Width								inch 49						
Length								inch 95						
Height								inch 74						
Weight								lbs 4,078						
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														