

		Technical Data Sheet		Code										
				GAE5T350A-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 110										
Description				Variable speed unit										
Arrangement				Silenced										
Series				6000 STANDARD PRODUCT										
Air End frame				M 195										
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 359.7 - 633.0 - 708.4 max								
Terminals absorbed power				(2) (6)	kW	118.13								
Terminals unload absorbed power					Kw	12.48								
Noise level (max)				ISO 2151 - @1 mt	dBA	69								
Oil carry over					ppm	3								
Total heat recovery (up to ...)					%	95								
Oil circuit capacity					gallons	15.9								
PERFORMANCES														
OPTIMA PERFORMANCES														
psi (g)		rpm	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	rpm
102	Flow rate	cfm	366.6	405.1	443.2	481.3	519.5	557.3	595.4	633.0	671.0	708.4	-	Delivery
	Power	kW	61.51	69.01	76.60	84.39	92.38	100.57	108.96	118.13	126.22	135.10	-	Absorbed power
116	Flow rate	cfm	364.1	402.2	440.0	478.2	515.9	553.4	591.2	628.6	666.4	-	Delivery	
	Power	kW	65.55	73.54	81.73	90.12	98.60	107.38	116.35	125.43	134.80	-	Absorbed power	
131	Flow rate	cfm	362.0	399.8	437.2	475.0	512.4	550.2	587.3	624.7	-	-	Delivery	
	Power	kW	69.30	77.79	86.37	95.34	104.32	113.59	123.06	132.73	-	-	Absorbed power	
145	Flow rate	cfm	359.9	397.3	434.7	472.2	509.6	547.0	584.1	621.2	-	-	Delivery	
	Power	kW	72.56	81.53	90.61	99.88	109.45	119.12	129.08	139.24	-	-	Absorbed power	
ELECTRICAL CHARACTERISTICS														
Electric certification							-	CEI						
Starting type							-	INVERTER						
Voltage -- Frequency -- Phases							V / Hz / Ph	400-460 / 50-60 / 3						
Auxiliary circuit tension							V	110						
Nominal absorbed current							(6)	A	196					
Minimum supply cables section (33 ft.)								AWG	4					
MAIN MOTOR														
Nominal power input							kW / HP	110 / 150						
Efficiency class							-	IE3						
Efficiency							%	95.8						
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	6474					
Cooling AIR flow (maximum)							(4)	cfm	13714					
Heat Removal Oil and Aftercooler							(4)	Btu/hr	403178					
Fan residual head (minimum)							(3)	Pa	-					
Fan residual head (maximum)							(4)	Pa	110					
Fan absorbed power (minimum)							(3)	kW	-					
Fan absorbed power (maximum)							(4)	kW	4.0					
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" 1/2						
Condensate separator drain connection							-	Rp 2" 1/2						
Condensate drain connection							-	-						
Condensate DRYER drain connection							-	-						
Receiver condensate drain connection							-	-						
INLET-OUTLET water connections							-	2 x Rp 1"						
Storage AIR receiver volume							gallons	n.a.						
Width							inch	55						
Length							inch	92						
Height							inch	78						
Weight							lbs	5,710						
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														