

		Technical Data Sheet		Code										
				GEACRT 350A-ASE										
Ing. Enea Mattei S.p.A.		PRODUCT SPECIFICATIONS												
		Model		OPTIMA 37										
Description		Variable speed unit												
Arrangement		Silenced												
Series		2000		STANDARD PRODUCT										
Air End frame		M 135												
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 104.9 - 186.7 - 215 max										
Terminals absorbed power		(2) (6)	kW	38.81										
Terminals unload absorbed power			Kw	4.20										
Noise level (max)		ISO 2151 - @1 mt	dBA	66										
Oil carry over			ppm	3										
Total heat recovery (up to ...)			%	95										
Oil circuit capacity			gallons	5										
PERFORMANCES														
OPTIMA PERFORMANCES														
psi (g)		rpm	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	rpm
102	Flow rate	cfm	105.8	117.7	129.5	141.1	152.7	164.1	175.5	186.65	197.8	215.0	-	Delivery
	Power	kW	20.90	22.70	24.50	26.65	28.80	31.40	34.00	36.55	39.10	44.00	-	Absorbed power
116	Flow rate	cfm	105.7	117.4	128.9	140.4	151.7	163.0	174.1	185.0	202.0	-	Delivery	
	Power	kW	21.62	23.56	25.82	28.09	30.81	33.52	36.27	38.74	43.92	-	Absorbed power	
131	Flow rate	cfm	105.6	117.0	128.4	139.6	150.8	161.9	172.8	189.3	-	-	Delivery	
	Power	kW	22.22	24.60	26.97	29.79	32.59	35.44	38.10	43.12	-	-	Absorbed power	
145	Flow rate	cfm	104.9	116.3	127.6	138.8	150.0	160.9	171.7	188.1	-	-	Delivery	
	Power	kW	23.33	25.82	28.31	31.25	34.20	37.17	39.96	45.22	-	-	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 66.7										
Minimum supply cables section (33 ft.)				AWG 4										
MAIN MOTOR														
Nominal power input				kW / HP 37 / 50										
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 2266										
Cooling AIR flow (maximum)		(4)		cfm 4797										
Heat Removal Oil and Aftercooler		(4)		Btu/hr 132459										
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 1.1										
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 1" 1/2										
Condensate drain connection				-										
Condensate DRYER drain connection				-										
Receiver condensate drain connection				-										
INLET-OUTLET water connections				-										
Storage AIR receiver volume				gallons n.a.										
Width				inch 38										
Length				inch 72										
Height				inch 66										
Weight				lbs 1,940										
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														