

		Technical Data Sheet		Code										
				GEACQT350A-ASE										
Ing. Enea Mattei S.p.A.		PRODUCT SPECIFICATIONS												
Model				OPTIMA 30										
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 88.8 - 168.1 - 188.7 max								
Terminals absorbed power				(2) (6)	kW	31.43								
Terminals unload absorbed power					Kw	3.36								
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	90.7	103.1	113.8	125.3	136.1	146.8	157.5	168.1	178.7	188.7	-	Delivery
	Power	kW	16.53	18.69	20.63	22.72	24.82	26.93	29.06	31.44	33.51	35.78	-	Absorbed power
116	Flow rate	cfm	90.0	102.3	112.9	124.3	135.0	145.6	156.2	166.7	177.2	-	-	Delivery
	Power	kW	17.72	20.01	22.07	24.32	26.46	28.65	31.05	33.62	35.94	-	-	Absorbed power
131	Flow rate	cfm	89.3	101.5	112.1	123.5	134.1	144.6	155.2	165.6	-	-	-	Delivery
	Power	kW	18.83	21.26	23.41	25.90	28.13	30.47	32.77	35.63	-	-	-	Absorbed power
145	Flow rate	cfm	88.8	100.9	111.5	122.8	133.2	143.7	154.2	164.6	-	-	-	Delivery
	Power	kW	19.68	22.31	24.57	27.12	29.56	32.08	34.57	37.20	-	-	-	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	54.7					
Minimum supply cables section (33 ft.)								AWG	10					
MAIN MOTOR														
Nominal power input								kW / HP	30 / 40					
Efficiency class							-	IE3						
Efficiency								%	94.1					
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	107271					
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	1.808					
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														