

		Technical Data Sheet		Code										
				GEACJT350A-ASE										
Ing. Enea Mattei S.p.A.		PRODUCT SPECIFICATIONS		5/28/15 <i>date</i>										
				draft <i>revision</i>										
				1/2/13 <i>issue</i>										
Model				OPTIMA 45										
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 133.1 - 251.8 - 282.6 max									
Terminals absorbed power				(2) (6) kW	47.30									
Terminals unload absorbed power				Kw	4.92									
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	135.9	154.4	170.5	187.7	203.8	219.9	235.9	251.76	267.7	282.6	-	Delivery
	Power	kW	24.80	28.00	31.05	34.10	37.20	40.30	43.80	47.30	50.85	54.40	-	Absorbed power
116	Flow rate	cfm	134.8	153.2	169.1	186.2	202.2	218.1	234.0	249.7	265.4	-	Delivery	
	Power	kW	27.10	30.64	33.68	37.14	40.41	43.94	47.58	51.56	55.27	-	Absorbed power	
131	Flow rate	cfm	133.8	152.1	167.9	184.9	200.8	216.6	232.4	248.0	-	-	Delivery	
	Power	kW	28.54	32.06	35.43	39.03	42.57	46.20	50.13	54.06	-	-	Absorbed power	
145	Flow rate	cfm	133.1	151.2	166.9	183.8	199.6	215.3	231.0	246.5	-	-	Delivery	
	Power	kW	29.85	33.69	37.20	40.88	44.58	48.31	52.38	56.75	-	-	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	79.7						
Minimum supply cables section (33 ft.)							AWG	4						
MAIN MOTOR														
Nominal power input							kW / HP	45 / 60						
Efficiency class							-	IE3						
Efficiency							%	95.0						
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	< 88						
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	161435						
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	2,072						
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														