

		Technical Data Sheet		Code										
				GEABKT2B0B-ASE										
Ing. Enea Mattei S.p.A.		PRODUCT SPECIFICATIONS												
Model				OPTIMA 18										
Description				Variable speed unit										
Arrangement				Silenced										
Series				1000 STANDARD PRODUCT										
Air End frame				M 111										
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 71 - 95.3 - 112.4 max								
Terminals absorbed power				(2) (6)	kW	18.91								
Terminals unload absorbed power					Kw	2.80								
Noise level (max)				ISO 2151 - @1 mt	dBA	67								
Oil carry over					ppm	3								
Total heat recovery (up to ...)					%	95								
Oil circuit capacity					gallons	3								
PERFORMANCES														
OPTIMA PERFORMANCES														
psi (g)		rpm	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	rpm
102	Flow rate	cfm	-	-	-	72.5	78.2	83.9	89.7	95.3	101.0	106.7	112.4	Delivery
	Power	kW	-	-	-	13.57	14.88	16.20	17.56	18.91	20.39	21.81	23.60	Absorbed power
116	Flow rate	cfm	-	-	-	71.9	77.6	83.3	88.9	94.6	100.2	105.9	-	Delivery
	Power	kW	-	-	-	14.51	15.90	17.31	18.76	20.19	21.77	23.28	-	Absorbed power
131	Flow rate	cfm	-	-	-	71.4	77.1	82.7	88.3	93.9	-	-	-	Delivery
	Power	kW	-	-	-	15.37	16.84	18.33	19.86	21.37	-	-	-	Absorbed power
145	Flow rate	cfm	-	-	-	71.0	76.6	82.2	87.8	93.4	-	-	-	Delivery
	Power	kW	-	-	-	16.12	17.66	19.23	20.83	22.41	-	-	-	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			33.7			
Minimum supply cables section (33 ft.)							AWG			10				
MAIN MOTOR														
Nominal power input							kW / HP			18 / 25				
Efficiency class							-			IE2				
Efficiency							%			91.2				
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							-			Axial				
Cooling AIR flow (minimum)							(3)	cfm			1648			
Cooling AIR flow (maximum)							(4)	cfm			2972			
Heat Removal Oil and Aftercooler							(4)	Btu/hr			64540			
Fan residual head (minimum)							(3)	Pa			-			
Fan residual head (maximum)							(4)	Pa			20			
Fan absorbed power (minimum)							(3)	kW			-			
Fan absorbed power (maximum)							(4)	kW			0.5			
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 1"				
Condensate separator drain connection							-			Rp 1"				
Condensate drain connection							-			10 mm (MASCHIO / male)				
Condensate DRYER drain connection							-			-				
Receiver condensate drain connection							-			-				
INLET-OUTLET water connections							-			-				
Storage AIR receiver volume							gallons			n.a.				
Width							inch			31				
Length							inch			59				
Height							inch			47				
Weight							lbs			1,041				
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														