

LYPS 110_40 bar

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110 kW

Compressor Performances		
Capacity (ISO 1217)	587	m³/h
	9,8	m³/min
	345,5	cfm
<i>Working pressure selection</i>	40	bar g
	580,2	psi
Shaft power - full load at 40 bar (ISO 1217)	100	kW
Shaft power - full load at selected parameters	100	kW
Shaft power - off load	33	kW
Compressor speed	500	rpm
Cylinder's bores / Valves number		
1st Stage	375 / 8	mm / Nr
2nd Stage	270 / 4	mm / Nr
3rd Stage	140 / 2	mm / Nr
Stroke	125	mm
Suction filter grade	≤25	µ
Noise level (at 1m)	80±3	db (A)
Machine color	Lupamat Grey (Special grey color)	RAL
Motor Performances		
General data		
Motor efficiency class & protection (standard)	IE2/IP55	
Motor efficiency class & protection (optional)	IE3/IP55	
Cos phi	0,84	Cos φ
Insulation class	F	
Motor weight (heaviest part)	966	kg
50Hz		
Motor power	110	kW
Nominal current (400V - EN-50160)	199	A
Starting current (400V - EN-50160) (Y/D: Id= 3-4,5 x In)	458	A Max
Motor efficiency (standard)	94,8	
Motor efficiency (IE3)	95,3	
Motor speed / 4 poles - 50 Hz	990	rpm
Water and Oil for Compressor		
Cooling water pressure	4	bar g
Cooling water temperatures - Min/Max	10/40	°C
Water volume (compressor)	450	l
Total required cooling water flow	23	m³/h
Compressor cooling requirement	115240	kcal/h
Allowed pressure drop in circuit	1	bar g
Chemical requirements	5,5≤pH≤7,5	pH
Max water drain flow at 20°C and 70% RH	≈15	l/h
Oil quantity in crankcase	36	l
7 bar air for Regulation		
Pressure Min. / Max.	-	bar g
Volume for start-up	-	l
Air flow when running	-	l/min
Connection	-	Ø (BSPP Female)
40 bar Air Receiver - hot galvanized		
Capacity	886	l
Diameter	Ø800	mm
Height	2195	mm
Weight	610	kg
Mounted on skid - horizontal	NO	
Beside the skid - vertical	OK	
Anti Vibration Mounts (AVM's)		
Quantity	4	Nr
Surface per mount	568	cm²
Specific pressure on ground	4	kg/cm²
Connections - Skid		
Air outlet (40 Bar)	DN65-PN40	Ø (Flange)
Cooling water in & out	G2"	Ø (BSPT Male)
Cooling water filling connection	G2"	Ø (BSPP Female)
Water drain	G1/2"	Ø (BSPP Female)
Oil drain	G3/4"	Ø (BSPP Female)
Compressor Dimensions		
Length	3650	mm
Width	2100	mm
Height	2750	mm
Weight	9150	kg
PERFORMANCE - OPTIONS		
Oil warming		
Heater power	-	kW
Soft Starter		
Starting current (400V - EN-50160) (Id=2,8-3,5 x In)	697	A
Frequency Inverter (FI or VSD)		
Minimum compressor speed	350	rpm
Capacity at min. speed (ISO 1217)	411	m³/h
Shaft power at min. speed (ISO 1217)	70	kW
Shaft power at min. speed at selected param.	70	kW
Shaft power - off load	23	kW
Starting current (400V - EN-50160) (Id=1,2 x In)	239	A
Harmonic filter (optional)	-	kW
Adjustable Air Flow System (AFS) - 0-50-100%		
Capacity at 50% load	-	m³/h
Shaft power at 50% load (ISO 1217)	-	kW
Shaft power at 50% load at selected parameters	-	kW

AUXILIARY EQUIPMENTS		
Electrical Control Cabinet		
Electrical Data		
Electrical supply (others available)	400/50	V/Hz
Power distribution		
Max. circuit breaker size	250	A
Magnetic protection	100-150	A
Icu up to 415V AC	50	kA
Icu up to 440V AC	42	kA
Air conditioning (optional)	-	kW
Panel Dimensions		
	Star-Delta / VSD	
Width (optional Softstarter or VSD)	800 / 1200	mm
Depth (optional Softstarter or VSD)	500 / 600	mm
Height (optional Softstarter or VSD)	1800 / 1800	mm
Weight	100 / 14,0	kg
Opening doors	1*78 / 2*60	Nr x mm
Electrical cabinet color	7035	RAL
Dryer 50 HZ		
Dryer Performances		
	VT705 HP	
Dryer Electric Power input (50Hz)	1,37	kW
Dewpoint at 40 Bar	3	°C
Integrated 40 bar filter (1.State / 2.State)	1 / 0,01	µ
Refrigerant type	R134a	
Refrigerant weight (air/water cooled)	5	kg
Air outlet temperature	58	°C
Electrical supply	230/1/50	V
Water cooled = optional		
Dryer Electric Power input (50Hz)	1,32	kW
Required cooling water flow (at 35°C) (50Hz)	4	m³/h
Dimensions		
Length	760	mm
Width	810	mm
Height + 75 mm (feet)	1375	mm
Weight	225	kg
Air connections	DN40	Ø (Flange)
Drain connections	DN25	Ø (BSPP Female)
Water connections (option)	DN50	Ø (BSPP Female)
Water Pump : optional		
On compressor subbase		
Electrical power (50 Hz)	11	kW
OPTIONS / ACCESSORIES		
Activated Carbon Filter		
Filtration Level	0,003	ppm
Length (with flanges)	140	mm
Height	357	mm
Connections	DN40	Ø (Flange)
Drain Collector		
Length	-	mm
Height	-	mm
Weight	-	kg
Outlet connection	-	Ø (BSPP Female)
RBack5		
Vertical galvanized receiver - 11 bar		
Capacity	-	l
Diameter	-	mm
Height	-	mm
Weight	-	kg
Connection		
Air inlet connection (from blowing machine)	-	Ø (BSPP Female)
COMPRESSOR ROOM		
Ambience		
Natural ventilation	6,22	m²
Forced ventilation ΔT10°C	4927	m³/h
Max ambient temperature	40	°C
Min ambient temperature	4	°C
Heat dissipation	14190	kcal/h
Dimensions		
Skid, panel, dryer space, weight for hoist		
Length	7000	mm
Width	5000	mm
Height under lifting hoist	5000	mm
Weight for lifting hoist	15000	kg
OVERALL INSTALLED POWER		
50Hz		
Compressor motor	110	kW
Dryer - air cooled	1,37	kW
Dryer - water cooled	-	kW
Water Pump	11	kW
Total installed power (without cooling system)	116	kW
Total consumed power (without cooling system)	105	kW
Oil warming (optional)	-	kW
Air conditioning (optional)	-	kW
Harmonic filter (optional)	-	kW
Max apparent power (total electric installation - including cooling system)	131	kW
Elec cables to YD control panel - Valid for stable 400V/3/50HZ XVB 1kV cable areal (EN-50160)	(3x95)+50	for info only
Copper, 100m & 35°C max., PER PHASE	-	not AF supply

OVERALL PIPE CONNECTIONS		
Compressor Skid		
7 bar air for Regulation	-	Ø (BSPP Female)
Air outlet (40 Bar)	DN65-PN40	Ø (Flange)
Cooling water in & out	G2"	Ø (BSPT Male)
Cooling water filling connection	G2"	Ø (BSPP Female)
Water drain	G1/2"	Ø (BSPP Female)
Air outlet (40 Bar)	G3/4"	Ø (Flange)
Cooling water pipe between skid & cooling system		
Total length (back and forth)	-	m
Number of elbows	-	Pieces
Minimum pipe diameter	DN50	Ø
Max length (back & forth) for above diameter (max ΔP = 1 bar)	-	m
Max height for cooling system	2,7	m
Dryer		
Air connections	DN40	Ø (Flange)
Drain connections	DN25	Ø (BSPP Female)
Water connections (option)	-	Ø (BSPP Female)
Air pipe between dryer and blowing machine		
Total length	-	m
Number of elbows	-	Pieces
Minimum pipe diameter	-	Ø
Max length for above diameter (max ΔP = 0,1 bar)	-	m
Options		
Activated Carbon Filter	DN40	Ø (Flange)
Drain collector outlet	DN25	Ø (BSPP Female)
RBack5 - air inlet from blowing machine	-	Ø (BSPP Female)