
1. TECHNICAL SPECIFICATION TILBURG , 62.3772AGGREGATE - Drawing No. 933.0502120

Serial No.	:	3772-74	
Year	:	1995	
Weight	:	4000	kg. approx.

COMPRESSOR - Pos. No. K1.00

Make	:	HV-TURBO	
Type	:	KA22SV	
Medium flow	:	Air	
Inlet flow, min.	:	8353	m ³ /h
Inlet flow, max.	:	18562	m ³ /h
Inlet pressure	:	1,007	bar abs.
Discharge pressure, max.	:	1,563	bar abs.
Inlet temperature, normal	:	20	°C
Inlet temperature, max.	:	35	°C
Revolutions	:	9911	rpm
Power consumption	:	334	kW

The power is indicated at	:	Inlet flow max., inlet pressure and inlet temperature, normal
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GEAR - Pos. No. G1.00

Make	:	HV-TURBO	
Type	:	GL225	
Gear ratio	:	3,323	
Oil requirement	:	82	litres/min.

DRIVE MOTOR - Pos. No. A4.01

Make	:	ABB	
Type	:	M2BA 355MLA-2,B3	
Weight	:	2150	kg
Degree of protection/			
Insulation class	:	IP 54/F	
Power, nominal	:	400	kW
Mains frequency	:	50	Hz
Voltage	:	3X380	V
Revolutions, nominal	:	3000	rpm
Start	:	Y/D	

COUPLING (Motor/Gear) - Pos. No. A3.01

Make	:	Flender Arpex	
Type	:	NAN 205	

LINEAR MOTOR - Diffuser - Pos. No. D2.24

Make	:	FRAMO ANTRIEBSTECHNIK
Type	:	UNIPUSH-MINI 1
Pull-/Push power	:	2100 N
Max. length of stroke	:	150 mm
Velocity	:	2,5 mm/sec.
Degree of protection/		
Insulation class	:	IP 54/F
Mains frequency	:	50 Hz
Voltage	:	1X220 V
Position indication	:	1000 Ω potentiometer built in. The resistance range <880 Ω can be specified after test run of the compressor.

LINEAR MOTOR - Prerotation - Pos. No. D4.07

Make	:	Framo
Type	:	Unipush - mini 00
Pull-/push power	:	600 N
Max. length of stroke	:	100 mm
Velocity	:	1,35 mm/sec.
Degree of protection/		
Insulation class	:	IP 54/F
Mains frequency	:	50 Hz
Voltage	:	1X220 V
Position indication	:	1000 Ω potentiometer built in. The resistance range <880 Ω can be specified after test run of the compressor.

OIL FILTER - Pos. No. S3.03

Make	:	ARLON Filtertech, Holland
Type	:	TTF 2 170 R 11/2
Capacity	:	170
Element (insert)	:	10 micron

OIL PUMP - Pos.No.S1.01

Make	: AB Imo-Industry, Stockholm,	
	Sweden	
Type	: E4T	
Capacity	: 82	litres/min.

PUMP MOTOR - Pos. No. S1.02

Make	: ABB	
Type	: MT90L	
Power	: 2,2	kW
Degree of protection/		
Insulation class	: IP 54/F	
Mains frequency	: 50	Hz
Voltage	: 3X380	V
Revolutions, nominal	: 3000	rpm

OIL RESERVOIR IN BASE - Pos. No. F1.01

Normal filling	: 330	litres
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OIL COOLER (air cooled) - Pos. No. S3.01

Make	: NISSEN
Type	: HP5-1

FAN MOTOR

Type	: AEG	
Make	: AM80 KY4	
Revolutions	: 1400	rpm
Degree of protection/		
Insulation class	: IP 54/F	
Mains frequency	: 50	Hz
Voltage	: 3X380	V
Power	: 0,55	kW

LUBRICATING-OIL PRESSURE

Min.	: 1,0	bar
Normal operating		
pressure, approx.	: 2-3	bar*

* The oil pressure depends on temperature and load.

Oil-pressure manometer - Pos. No. E1.21

LUBRICATING-OIL TEMPERATURE

Max.	: 70	°C in reservoir
Normal operating temperature	: 45-55	°C at gearbox inlet

Thermometer - Pos. No. E1.22

OIL TYPES

Oil type HL/HLP46 DIN 51354
Viscosity acc. to ISO 3448-1975 , HV-TURBO TECH.INFO
930.870.003, 930.870.004.

THERMOSTAT - Pos. No. E1.04

Make	: Danfoss A/S
Type	: RT 101
Sensor	: In reservoir
Function	: Stops compressor when oil temperature gets too high
Set point	: 70°C
Difference	: Minimum

THERMOSTAT - Pos. No. E1.38

Make	: Danfoss A/S
Type	: RT101
Sensor	: In oil reservoir
Function	: START/STOP OF OIL COOLER FAN
Set poin	: 45-55°C
Difference	: Minimum

THERMOSTAT - Pos. No. E1.11

Make	: Danfoss A/S
Type	: RT101
Sensor	: In compressor inlet
Function	: Stops compressor at recirculation (rising inlet temperature)
Set point	: 65°C
Difference	: Minimum

PRESSOSTAT RT110 - Pos. No. E1.07

Make	: Danfoss A/S
Type	: RT110
Sensor	: In the gear's lubricating oilsystem
Function	: Stops compressor when oil pressure gets too low
Set point	: 1,0 bar
Difference	: Minimum

PRESSOSTAT - Pos. No. E1.13

Make	: HV-TURBO
Type	: SUC-3
Sensor	: In compressor's inlet
Function	: Stops compressor at surging

Differential-Pressure Transmitter - Pos. No. E3.02

Make	: ENDRESS & HAUSER
Type	: DELTABAR PMD 130
Range	: 0,3 bar
Sensor high pressure	: In cone diffuser (discharge)
Sensor low pressure	: In compressor inlet
Outlet	: 4 - 20mA

TEMPERATURE TRANSMITTER - Pos. No. E3.03

Make	: LEOMOTOR
Type	: PT100
Range	: -50/+50 °C
Sensor	: In compressor inlet
Outlet	: 4 - 20 mA

BLOW-OFF VALVE - Pos. No. P1.06

Make	: WOUTER WITZEL
Type	: EVBSBE

ACTUATOR FOR BLOW-OFF VALVE

Make	: BERNARD
Type	: OA8
Degree of protection/ Insulation class	: IP 65/F
Mains frequency	: 50 Hz
Voltage	: 3X400 V
Power	: 0,10 kW
Operating time (90°C)	: 6