INDUSTRIAL C O M P R E S S O R S

TECHNICAL DATA

MODEL	DISPLACEMENT	MAX. PRESSURE	RPM	MOTOR	BELT	MOTOR PULLEY		OR PULLEY OIL CAP.		WEIGHT	DISCHARGE
MODEL	cfm	psig hp 2 POLES		DLES	IN↓	IN QT	IN LBS	SIZE			
MCWV OO MAY	00	475	010	00	0.0	mm	inch	4.5	4 70	007.0	0/4# DCD
MSWV 80 MAX	80	175	910	20	2-B	145	5.7	4.5	4.72	397.3	3/4" BSP

								145	5.7			
Position	lbf.IN	Nm				I—-—		61-60-41-	62	T1)-	—49 —(T11)—	-59
		_							B	F-00	(A) *	
	304	34						48-47	7—46—45—	64	_	
T2 8	704 70	80				65150	-37-38-39	i —	40-41-60-	T9 ⁶³		
T3 2		8			8	-12-1	-37-36-38	44-43-42-	40-41-60-	T9—(11)		
T4 28 T5 12	158	18						36-	40-41-60			
(T5) 12	1215	137				4				,		
T6 14 T7 23	334	38				8						1
	185	21			35 - 34 -	33-			28 58	3		6
T8 62	141	16						2	9 (T4)		,	
T9 HP-LP 40-41-60	19	2.2		32	- 31 - 30		 	4)		3
(T10) LP 40-41-60	44	5							→ − 27	,		31/
TABLE 1 - TORQUE	264	30				17 20	18	18	2/100		MALL	57
ESPECIFICATION FOI	R BOLT	,					20/	3/CD 12	26 ⁴			
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/				14 — T6—	` ~	16	000	Dato	10			
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~6						Juni 2	www			67		
(75)						Thur Management	72 X		65	50 33s		
12]					72	72			68		
12												

BARE PUMP PARTS

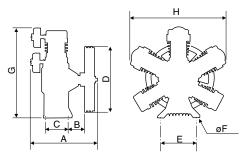
No.	CODE	DENOMINATION	QUANTITY
1 2 3 4 5 6 7 8 9 9 10 11 12 12 13 14 15 16 16 17 18 19 20 12 21 22 22 24 24 25 26 27 28 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	709.1346-0 20505001 830.1033-0 60082501 830.0932-0 60154502 60259501 20504001 60154501 830.0933-0 60267503 20508005 830.0934-0 60152502 60152502 60152502 60152502 60152502 60152502 60152502 60152502 60152502 60152502 60152502 60152503 830.0937-0 20501001 930.0037-4 60273501 830.0031-4 60273501 830.0939-0 003.0031-4 60273501 830.0939-0 000.0077-0 000.0077-0 000.0077-0 000.0077-0	Flywheel UNC 1/4" x 3/4" head bolt Flange cover Crankcase gasket kit Oil seal Lock washer and nut 33109 bearing NC 1/2" x 1" head bolt Straight fitting Flange 32211 bearing Crankshaft Key UNF 3/8" x 3" head bolt Crankshaft counter weight Connecting rod pin Connecting rod pin Connecting rod more bushing Connecting rod inner bushing Connecting rod ushing Connecting rod with centrifugal mechanism UNF 5/16" x 1.1/4" head bolt Crankcase 3/8" plug 3/4" oil level sight Crankcase UNC 5/16" x 3/4" head bolt 3/4" plug Ly 4.3/4" plug Ly 4.3/4" piston LH 90mm piston HP 9.1/2" piston LH 9.1/2" piston LH 9.1/2" ring kit HP 90mm ring kit HP 90mm ring kit HP 91-4.3/4" ring kit UPper gasket kit LP 4.3/4" vilnider	01 04 01 01 01 01 01 01 01 01 01 02 09 01 01 02 09 01 01 01 01 01 02 09 01 01 01 01 01 01 01 01 01 01 01 01 01

No.	CODE	DENOMINATION	QUANTITY
39	709.1347-0	HP 2.1/2" cylinder	01
40 41	830.0955-0 830.1002-0	LP 4.3/4" vålve plate kit HP 90 mm valve plate kit	03 01
42	809.1028-0	LP 4.3/4" valve plate	03
43	809.1027-0	HP 90mm valve plate	01
44	809.1029-0	HP 2.1/2" valve plate	Ŏi
45	709.1272-0	LP 4.3/4" cylinder cover (with breather)	Ŏ1
46	709.1423-0	LP 4.3/4" cylinder cover (without breather)	02
47	709.1424-0	HP 90mm cylinder cover	01
48	709.1389-0	HP 2.1/2" cýlinder cover	01
49	*	UNC 3/8" x 1.1/2" head bolt	23
50	709.1457-0	Short intercooler No. 2	01
51	709.1459-0	Medium intercooler No. 3	01
52	709.1458-0	Long intercooler No. 4	01
53	21011004	3/4" nut for intercooler	10
54	21029003	Intercooler holder	03
55 56	830.0340-5 003.0054-3	1/4" crankcase breather tube	01 01
57	830.0599-8	1/8" x 1/4" straight connection 1/4" ring kit	01
58	022.0174-0	Centrifugal unloading valve	01
59	383.0111-0	HP 5/16" x 1.1/2" Allen hex bolt	06
60	830.0957-0	HP 2.1/2" valve plate kit	01
61	830.1032-0	Washer kit	Ŏ1
62	013.0752-0	M6 x 1 x 55 Allen hex bolt	08
63	007.0116-0	Air filter	03
64	007.0118-0	Filter element	03
65	20517005	Intercooler adaptor	02
66	022.0177-0	LP 1/8" ASME safety valve	03
67	21011001	3/4" x 1/2" straight connection	04
68	003.0036-5	3/4" niple	01
69	809.1043-0	Intercooler kit	01
70 71	709.1369-0	Discharge tube No. 1	01 01
71 72	709.1456-0	Discharge tube No. 5	01 02
73	022.0189-0 21011002	HP 1/8" ASME safety valve 3/4" x 3/4" straight connection	02 06
/3	709.1359-0	Pulley (not shown)	00
	703.1338-0	i uliey (not snown)	VI

^{*} Part available in the market - not sold by Schulz Note: HP = high pressure LP = low pressure

DIMENSIONS

MSWV 80 MAX



	Α	В	С	D	E	F	G	Н
mm	650	120	244	540	344	14	780	960
inch	25.6	4.7	9.6	21.2	13.5	0.55	30.7	37.8

INSTALLATION AND OPERATION INSTRUCTIONS

INSTALLATION AND LOCATION

1. Installation: Install the compressor in a covered, well ventilated area, free of dust, toxic gases, humidity or any other kind of pollution. The compressor should be located no closer than 32" (800mm) from a wall or any other obstacle that could interfere with the air flow through the fan. This distance will also make maintenance easier. Place the compressor on a leveled surface. Rotation of the flywheel must be in the direction of the arrow cast into the flywheel. The maximum ambient temperature recommended while working is 104°F or 40°C. If necessary, install an exhaust fan to guarantee fresh air and to dissipate heat.

Before making the electrical connections, check oil level and top-up lubricating oil. For type of oil, see table at the end of these instructions.

Electrical connection: The country's valid electrical standards must be followed regarding Low Voltage Electrical Installation.

OPERATION

- 1. Initial start procedure: Before turning on the compressor, check the crankcase oil level. It must be in the middle of the OIL LEVEL SIGHT. As to the type of oil to be used and the recommended change intervals, check at "Lubrication" and as to its volume, check the Technical Data Table.
- 2. Start: Turn on the electrical start key and let your compressor run for about 10 (ten) minutes, what will keep the tank's internal pressure or compressed air around 20 psig. This will optimize a homogeneous lubrication of the parts.

LIMITED WARRANTY

All component parts on your SCHULZ compressor are warranted to be free of defects in workmanship and material for a period of one year. Transportation charges are responsibility of the purchaser. This warranty extends to the original purchaser of the compressor only.

There are no express warranties except as contained in this limited warranty statement and implied warranties, including those of merchantability and fitness for a particular purpose, are limited to the period of warranty.

Our liability is limited solely to replacement of nonconforming parts as set forth herein and does not include any liability for any incidental, consequential, or other damages of any kind. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.



Schulz of America, Inc.
320 A Northpoint Parkway
Acworth, GA 30102
Phone # (770) 529-4731 / 32
Fax # (770) 529-4733
sales@schulzamerica.com
www.schulzamerica.com

MAINTENANCE

WARNING

Turn off power before servicing and be sure the air tank is unloaded. These instructions are based on normal operating conditions. If the compressor is located in an exceedingly dusty area, increase the frequency of all inspections.

DAILY

- Inspect the compressor visually.
- Check oil level and add some if necessary, before turning the compressor on.
- Drain moisture from the piping system.
- Be sure there is no excessive or unusual vibration or noise.

WEEKLY

- Remove and clean intake air filters; do not wash the filter element.
- Check V-belts for tightness. Belt tension should be adjusted to allow approximately 3/8" to 1/2" (9 to 13 mm) deflection with normal thumb pressure.
- Clean cylinders externally, cylinder head, motor, fan blade, tubing, and tank.
- ASME safety valve should be tested manually to see if it is working properly.

MONTHLY

- Check entire system for air leakage around fittings, etc by using water and soap lather.
- Check the pressure switch operation.
- Check for oil contamination and change it if necessary.

QUARTERLY

- Change the air filter element every 300 working hours or quarterly. (Whichever occurs first).
- Fasten bolts and nuts as required. (See Table 1)
- Change oil more frequently if compressor is located in a very dirty environment.
- WHILE RUNNING IN A PERIOD OF ABOUT 100 WORKING HOURS THE OIL LEVEL SHOULD BE CAREFULLY CHECKED.

ANNUALLY

- Test and calibrate the pressure switch, pressure gauge, pilot valve, discharge valve and safety valve according to their own technical standards. These parts must be removed from the tank and pump to be tested.
- Inspect and clean the suction and discharge valve(s) plate(s) every 1000 (one thousand) working hours (whichever occurs first), located between the cylinder and its cover and, if necessary, replace it (them) according to the operation conditions.

LUBRICATION

- The first oil change should be made after 8 hours of operation.
- The second oil change after 40 hours of operation.
- The third and following exchanges should be made after 200 hours of operation, or 60 (sixty) days, whichever occurs first.

NOTE:

Heavy Duty and multi-viscous oils are not adequate for Schulz air compressor's lubrication. The same applies to oils that tend to emulsify.

We recommend good industrial oil for air compressors, with rust and oxidation inhibitors and high viscosity level (from 90 to 95), SAE or ISO, as indicated in the table below:

RECOMMENDED LUBRICANT OILS FOR SCHULZ AIR PUMPS

AMBIENT TEMPERATURE °F (°C)							
Below 32 °F	32 °F to 68 °F	68 °F to 104 °F					
Below 0 °C	0 °C to 20 °C	20 °C to 40 °C					
SAE 10W	SAE 20W	SAE 30					
or	or	or					
ISO 32	ISO 68	ISO 100					

Note: Schulz reserves the right to make changes without prior notice.

DISTRIBUTOR

