



Schulz of America, Inc. 3420 Novis Pointe Acworth, GA 30101 Phone # (770) 529 4731/32 Fax # (770) 529 4733 sales@schulzamerica.com www.schulzamerica.com

AIR COMPRESSOR OWNER'S MANUAL

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SAFETY GUIDELINES

HAZARD SYMBOLS

Throughout this manual we have identified key safety hazards. The following symbols identify the level of hazard seriousness.

A DANGER

Immediate hazard which will result in severe personal injury or dea h.

M WARNING

Hazards or unsafe practices that could result in severe personal injury or death.

▲ CAUTION

Hazards or unsafe practices that could result in minor personal injury or product or property damage.

PRECAUTIONS & WARNINGS

Air compressors are high-speed mechanical equipment requiring caution in operation to minimize harm to property and personnel. There are many obvious safety rules that must be observed in the opera ion of this type of equipment. Therefore not all safety precautions that must be observed with compressors and compressed air systems are listed here. Failure to follow any of these warnings may result in severe personal injury, death, property damage and/or compressor damage.

- Air from this compressor will cause severe injury or death if used for breathing or food processing. Air used for these processes must meet O.S.H.A. 29 C.F.R. 1910.134 or F.D.A 178.3570 regulations.
- This compressor is designed for use in the compression of normal atmospheric air only. No other gases, vapors or fumes should be exposed to the compressor intake, nor processed through the compressor.
- Turn off and lockout/tagout (per O.S.H.A. regulation 1910.147) the main power switch, then release all pressure from the system, before attempting to service or perform maintenance procedures.
- Relieve all pressure internal to the compressor prior to servicing per O.S.H.A. regulation 1910.147. Do not depend on check valves to hold system pressure.
- A properly sized safety relief valve must be installed in the discharge piping before (downstream) any shut-off
 valve, heat exchanger, orifice or any potential blockage point. Failure to install a safety relief valve could result in
 rupturing or explosion of some compressor or safety component.
- Do not operate the compressor over the A.S M.E. pressure vessel rating for the receiver or he service rating of the compressor, whichever is lower.
- Do not change the pressure setting of the safety relief valve, restrict function of the safety relief valve or replace the safety relief valve with a plug. Over pressurization of some system or compressor component can occur, resulting in severe personal injury, death and property damage.
- Do not operate the unit with any of its safety guards, shields, or screens removed.
- Do not attempt to service any part of he unit while the compressor is operating.
- Never use plastic pipe or rubber hose not specifically rated for the necessary pressure and temperature, or lead-in soldered joints in any part of the compressed air system.
- Do not remove or paint over any DANGER!, WARNING!, CAUTION! or instructional materials attached to the compressor. Lack of information regarding hazardous conditions can cause property damage or personal injury, or death.

SAFETY GUIDELINES

- Provisions should be made to have he owners manual readily available to the operator and maintenance personnel. If for any reason any part of the manual becomes illegible or the manual is lost, have it replaced immediately. The owners manual should be read periodically to refresh one's memory. It may prevent a serious or fatal accident.
- Never use a flammable or toxic solvent for cleaning the air filter or any parts.
- Make a general overall inspection of the unit daily and correct any unsafe conditions.
- Never play with compressed air. Reckless behavior of any kind involving compressed air can cause serious personal injury.
- Periodically check all pressure relief valves for proper operation.
- Any alterations to the compressor must have prior factory approval.

DESCRIPTION OF OPERATION

PRINCIPLES OF COMPRESSION CYCLES

A reciprocating compressor is a piston type pump that develops pressure from the action of a piston moving through a cylinder. The cylinder, or cylinders, may be vertical, horizontal, or angular.

SINGLE STAGE - When air is drawn in from the atmosphere and compressed to its final pressure in a single stroke, the compressor is referred to as a "single stage" pump. During he downstroke of a single stage compressor, air is drawn through an intake valve in the head of the compressor and into the cylinder. At he bottom of the stroke, the intake valve closes and air is trapped in the cylinder. The air is then compressed in the cylinder during the upstroke of the piston.

TWO STAGE - Compressing air to higher pressure it is accomplished by using multiple stages. During the downstroke of the piston of a "two stage" pump, air is drawn through an intake valve in the head of the compressor, into the low-pressure cylinder and compressed during the upstroke of the piston. The compressed air is then released through a discharge valve in the head of the compressor to an intercooler where the heat resulting from compression is allowed to dissipate. The cooler compressed air is then drawn into a second compression cylinder, the high pressure cylinder, for compression to final pressure. From here the compressed air is released through a discharge valve to an air receiver tank. In one revolution of the crankshaft a compression cycle is completed.

APPLICATIONS

Single estage compressors normally runs in the 95 up to 125 psi range. These pressure settings are designed to provide working air in the 90 up to 100 psi range hat most air tools operate. These compressors are generally used in lighter duty applications such as in your garage at home.

A two-stage compressor normally run in the 145 up to 175 psi range. The higher-pressure set ing of the two-stage unit is required in commercial and industrial applications that have tools and equipment such as in-ground lifts and tire changers that need air at higher pressure than a single stage compressor can provide. Two stage compressors are generally better suited for commercial use for several other important reasons. First, this high-pressure air is store in the tank as "available energy" so the compressor runs less. Secondly, two stage compressors run at much lower discharge temperatures so that you have cooler, dryer air in the shop air system. The two-stage compressor is more versatile because it gives the shop owner he ability to use the higher pressures when necessary but also use air regulated down of the 90 up to 100 psi range for normal air tools.

2

ENVIRONMENTAL GUIDANCE AND RECOMMENDATIONS

1. Disposal of Liquid Effluents

The presence of liquid effluents or non-treated condensation from tank and separator in rivers, lakes or in other water receiving bodies may adversely affect he agua ic life and the water quality as well.

The condensation wi hdrawn from the tank and separator, daily, according to the Preventive Maintenance Chapter, must be kept in a container and/or in an appropriate collecting network for further treatment.

Schulz, the manufacturer of the product, recommends that the liquid effluent produced inside the receiver of the compressor or condensed separator should be adequately treated through processes that aim at protecting the environment and he healthy quality of life of the population, complying with the country's current regulation requirements. Among the treatment methods available, one may choose he physical-chemical, chemical, and biological ones.

The treatment may be carried out by the company itself or by outsourcing.

2. Draining the Lubricant Oil from the Compressor Unit

The disposal of the lubricant oil coming from the lubricant oil change located in the crankcase of he piston compressor must meet technical requirements, as well as the regulation requirements of the current legislation of the country the product has been exported to.

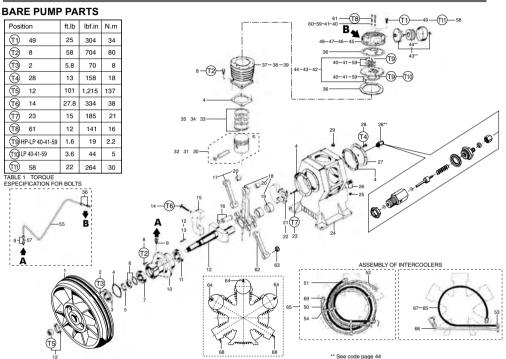
3. Disposal of Solid Waste (parts in general and product packages)

The generation of solid waste is an important aspect that must be considered by the users when using and maintaining their piece of equipment. The impacts to he environment may cause meaningful changes in the quality of the soil, in surface and underground water, and in the population's health, due to the inadequate disposal of he discarded residues (on streets, water springs, landfills, etc).

Schulz, the manufacturer of the product, recommends that the waste arising from the product, from its generation, handling, transportation, and treatment to its final disposal should the handled carefully. Appropriate handling should consider the following steps: quantification, qualification, classification, reduction at source, pick-ups and selective pick-ups, recycling, storage, transport, treatment and final destination.

The disposal of solid waste must be carried out according to the regulation requirements of the current legislation of the country the product has been exported to.

TECHNICAL DATA 20120HWV80X



	12		
No.	CODE	DENOMINATION	QTY
1	709 1346 0	Flywheel	01
2 3 4	*	UNC 1/4" x 3/4" head bolt	04
3	20505001	Flange cover	01
4	830 1033 0/NA	Crankcase gasket kit	01
5	60082501	Oil seal	01
6 7	830 0932 0	Lock washer and nut kit	01
8	60154502	33109 bearing	01
9		NC 1/2" x 1" head bolt	26
10	60259501	Straight fitting	01 01
11	20504001 60154501	Flange	01
12		3221 bearing Crankshaft kit	01
13	830 0933 0 60267503	Kev	01
14	0020/303	UNF 3/8" x 3" head bolt	02
15	20508005	Crankshaft counter weight	02
16	830 0934 0	Connecting rod pin kit	04
17	30008502	Connecting rod	03
18	830 0938 0	Master connecting rod	01
19	60152502	Connecting rod inner bushing	02
20	60152501	Connecting rod bushing	07
21	30007007	Counter weight with centrifugal mechanism	01
22	830 0937 0	Counter weight kit with centrifugal mechanism	l ŏi
23	*	UNF 5/16" x 1 1/4" Allen head bolt	02
24	20501001	Crankcase	01
25	003 0029 2	3/8" plug	01
26	830 0775 0	3/4" o l level sight kit	01
27	709 1316 0	Crankcase cover	01
28	*	UNC 5/16" x 3/4" head bolt	06
29	003 0031 4	3/4" plug	01
30	60273501	LP 4'3/4" piston	03
31	830 1000 0	HP 90mm piston kit	01
32	830 0939 0	HP 2 1/2" piston kit	01
33	000 0077 0	LP 4 3/4" ring kit	03
34	000 0080 0	HP 90mm ring kit	01
	000 0075 0	HD 2 1/2" ring kit	01

	No.	CODE	DENOMINATION	QTY
	NO. 367 389 401 412 424 444 445 447 448 450 551 552 554 555 567 588 601 662 663 664 665 667	830 1031 0/NA 709 1306 0 709 1306 0 709 1308 0 709 1308 0 709 1308 0 809 1028 0 809 1028 0 809 1028 0 809 1028 0 809 1028 0 709 1423 0 709 1423 0 709 1423 0 709 1458 0 709 1459 0 809 1030	Upper gasket kt LP 4 3/4" cylinder HP 90mm cylinder HP 90mm cylinder HP 90mm cylinder HP 2 1/2" cylinder HP 2 1/2" cylinder HP 2 1/2" cylinder HP 2 1/3" cylinder LP 4 3/4" valve plate HP 90mm valve plate LP 4 3/4" cylinder cover (with breather) LP 4 3/4" cylinder cover (without breather) LP 4 3/4" cylinder cover (without breather) LP 4 3/4" cylinder cover (without breather) LP 5 4/3" cylinder cover (without breather) LP 5 4/4" cylinder cover (without breather) LP 6 4/4" cylinder cover (without breather) LP 7 1/6" A 6/4" cylinder cyl	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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* Part available in the market - not sold by Schulz Note: HP high pressure LP low pressure

DESCRIPTION OF OPERATION

SYSTEM COMPONENTS

Pressure Switch - The pressure switch senses the air pressure in the system and automatically starts the motor when he pressure drops below the cut in setting.

Once the pump builds the pressure up to the maximum or cut out pressure, the pressure switch shuts off the motor and bleeds down the air pressure between the pump and check valve. This allows the motor to restart in an unloaded mode.

Check Valve - The check valve is a device that allows the air to flow in only one direction. While the compressor is running, the check valve is "open", allowing the air to flow from the pump to the tank. When the compressor stops, the check valve is "closed" and keeps the air in the tank from trying to back up to the pump.

Pressure Relief Valve - This valve is often called a "pop-off" or a "safety relief valve". Its job is to open up and relieve the air pressure in the event the pump did not shut off at the maximum setting.

Tank Drain Valve - This valve, also known as a petcock, is to drain out any condensation in the tank. Since some moisture will form inside the tank every time the compressor runs, it is important to drain the tank daily.

Intake Air Filter - As air is drawn into the compressor pump it must pass through a filter to remove dirt and dust. When the filter element becomes clogged with dirt it creates a high vacuum condition in the cylinder which can cause the oil from the crankcase to be sucked up past he rings and into the tank.

ON/OFF Switch - Starts and stops the air compressor. It is important to remember that in the "On" position, the compressor can start automa ically. The compressor should not be turned off in mid-cycle using the switch (except in an emergency) so hat the pressure switch is allowed to relieve the head pressure when it turns off the compressor.

Pressure Gauge - The pressure gauge reads the air pressure in the tank or air system.

SHUT OFF Valve - A ball or gate valve that is installed on the tank where the air is going out to the shop air system. This valve is used during scheduled maintenance to separate the compressor from the rest of the air system. It could also be important to quickly shut off the air from he tank in case of a problem like an airline breaking.

Cooling System - Air compressor pumps create remarkable amount of heat as they operate. Because so much heat is generated, the cooling system of the compressor is critical to the life of the pump. Compressor pumps are heavily finned to dissipate heat. Cooling air is blown over the fins by the fan blades designed into the flywheel of the pump. The inter cooler and after cooler lower he air temperature significantly, thereby making it easier to compress the air.

INSTALLATION

Location - The air compressor should be installed in a clean, dry, well lighted, and well ventilated area on a level floor. The flywheel side of the compressor should be towards the wall and the distance between the compressor and the wall should be a minimum of 30" to allow for proper cooling air circulation, inspections, and maintenance.



Under no circumstances should a compressor be placed in an area that may be exposed to a toxic, volatile or corrosive atmosphere nor should toxic, volatile or corrosive agents be stored near the compressor.

Mounting - Your compressor must be installed according to all applicable State and Local Laws. Shims may be needed to level the legs. Care must be taken when tightening anchor bolts. Uneven torque can lead to excessive vibration that can weaken welds and cause explosions. Tighten hree leveled legs equally and leave the fourth nut loose.

INSTALLATION

Air Intake - Do not locate he compressor where it could ingest toxic, volatile or corrosive vapors or extremely dirty air. If a remote inlet filter is going to be installed you must increase one pipe size for every ten feet in length and use a flex hose between the pump and any solid pipe to minimize the potential of damage from vibration.

Piping - The main distribution line should not be any smaller than the pipe size of the shut off valve of the compressor. It is recommended that the shop air system be connected to he air compressor shut off valve with a flexible coupler to reduce the risk of damage from vibration. All airlines should slope to an accessible drain or moisture trap for removal of condensation. Make sure hat there are no leaks in the airlines as even small leaks can cause your compressor to run outside of the rated duty cycle. A typical installation is shown on page 11, note that the feeder lines come off of he top of the main distribution line so that moisture can't enter the feeder line.



ASME coded pressure vessels must not be modified, welded, repaired, reworked or subjected to operating conditions outside the nameplate ratings. Such actions will negate code status, affect insurance status and may cause severe personal injury, death and property damage.



High voltage may cause personal injury or death. Disconnect and lockout/tagout per O.S.H.A. Regulation 1910.147 all electrical power supplies before opening the electrical enclosure or servicing.

Wiring - Before starting the installation procedure, check that the building's electrical service has an adequate capacity to handle the motor and the same electrical characteristos (voltage, cycle, and phase). Install the compressor as close to the main power supply as possible and follow all National Electric Safety Codes as well as those dictated by State and Local authorities. A qualified electrician must do the electrical installa ion. Every compressor model has a specific power requirement and the wire size used is critical to a proper installation. The two tables (shown below) are for reference only and should not supersede specific National, State or Local code requirements. The compressor can be mannufactured without a power switch, according to the product version. The pressure switch must not be directly connected to the motor but to a control circuit. See "Electrical Diagram" page 5 and 6 to correct installation, according to the product version.

30 amp c	ircuit	40 amp c	ircuit	60 amp circuit		
0-30 ft. 31-50 ft. 51-70 ft.	10 ga 8 ga 6 ga	0-25 ft. 26-50 ft. 51-75 ft.	8 ga 6 ga 4 ga	0-10 ft. 11-30 ft. 31-50 ft.	8 ga 6 ga 4 ga	
71 ft and up		76 ft and u		51 ft and call factor		

Orientative table for wiring



Grounding instructions: This product must be grounded to reduce the risk of an electric shock. Connect he Grounding cable to the motor's terminal, or if there is no terminal to the motor's frame.

Motor pow		Input supply voltage [V]	Max.fuse (gL/gG)* [A]
single phase	three phase	voitage [v]	(gL/gG) [A]
3	-	230	50
5	-	230	35
-	5	460	20
7.5	-	230	80
-	7.5	230	50
-	7.5	460	25
-	10	230	63
-	10	460	35
-	15	230	100
-	15	460	50
-	20	230	100
-	20	460	63

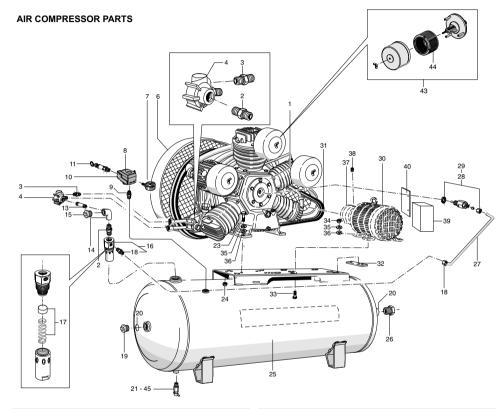
Orientative table for fuses
* type 2 coordination



WARNING

The incorrect installation of the grounding wire connector may result in an electric shock. If it is necessary to replace or repair both the cable and the connector, do not connect or join the grounding wire to the neutral wire or other. The green wire, with or without yellow stripes, is only to the grounding function. In case of doubts regarding the grounding information or whether the product is properly grounded, make sure you contact a qualified electrician to verify the connections.

TECHNICAL DATA 20120HWV80X



No.	CODE	DE DENOMINATION						
1	933.9385-0	Bare pump	01					
2	003.0036-5		02					
3	21011001	NPT 3/4 x 1/2 straight connection	04					
4	20517005	Upper tubing adaptor	02					
6	830.1023-0	Belt guard	01					
7	011.0118-0		01					
8	012.0845-0		01					
9	003.0174-4		01					
10	012.0723-0		01					
11	022.0057-0		01					
13	21011006	3/4 x 126mm nipple	01					
14	003.0343-0		01					
15	003.0031-4		01					
16	60281501	Check valve	01					
17	34004508	Check valve kit	01					
18	003.0054-3	NPT 1/8 x 1/4 straight connection	01					
19	003.0514-0	2 Plug	01					
20	023.0339-0		02					
21	022.0185-0	1/4 tank drain valve	01					
23	*	W 1/2 x 1.1/2 hex head bolt	04					
24		BSW 1/2 hex nut	04					
25	25003832A	120 gal horiz. Tank	01					

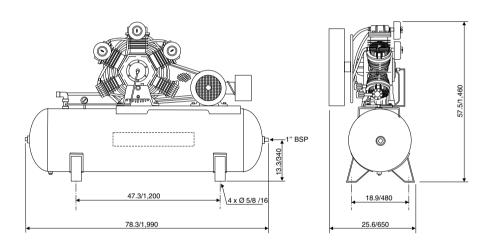
No.	CODE	DENOMINATION	QTY
26	003.0512-0	2 x 1 reduction bushing	01
27	709.1671-0	1/4 tube	01
28	022.0174-0	Centrifugal unloading valve	01
29	830.1043-0	Centrifugal unloading valve kit	01
30	015.0604-0	Motor 208/230/460V (three-phase)	01
31	004.0022-0	Belt	02
32	21028539	Motor fastening plate	02
33		7/16 x 1.3/4 hex head bolt	04
34	*	7/16 hex nut	04
35	*	1/2 lock washer	08
36	*	1/2 washer	08
37	709.1349-0	Pulley	01
38	*	3/8 x 1/2 Allen hex without head	01
39	012.0941-0	Start switch**	01
40	701.0381-0	Support start switch**	01
41	012.0907-0	Start switch pressure switch cord (not shown)**	01
42	012.0910-0	Motor start switch cord (not shown)**	01
43	809.1085-0	3/4 NPT air filter	03
44	007.0118-0	Filter element	03
45	709.1246-0	Hose for tank drain (not shown)	01

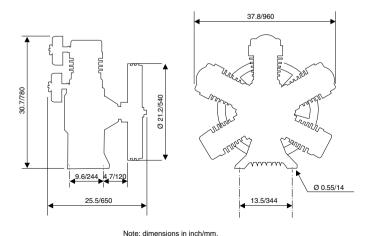
* Part available in the market - not sold by Schulz.

** Optional start switch

TECHNICAL DATA 20120HWV80X

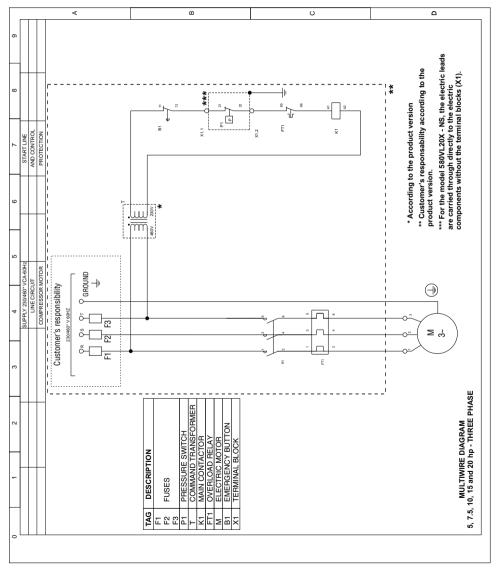
		CEMENT	MAX PR	•		ANK	Qı	Ø PUI		BELT SIZE	E	LECT	RIC MOTOR	DISCHARGE	OLO	AP		TH MOTOR	COLOR REF
MODEL	cfm	l/min	psig	bar	Geom	Vo ume gal	rpm	inches	P mm	2P	hp	kW	VOLTAGE (V)	SIZE	Volu ml	me in qt	lbs	Kg	Black
20120HWV80X	80	2,264	175	12	427	113	910	5.7	145	2-B	20	15	Three phase 208/230/460	1"	4,500	4,620	1,370	620	(pump) Gray (tank)





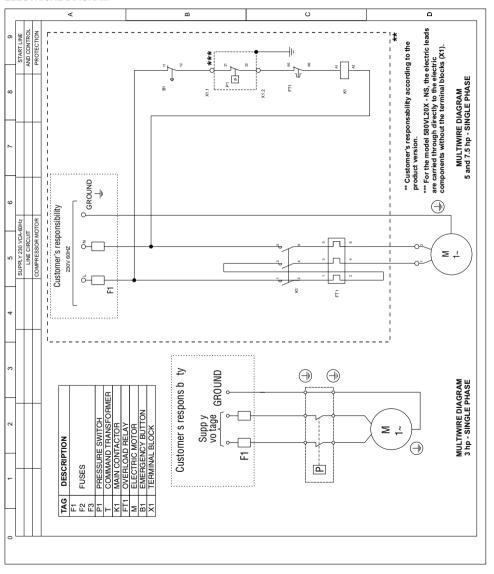
INSTALLATION

ELECTRICAL DIAGRAM



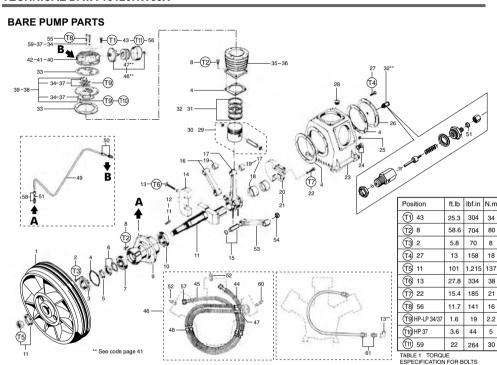
INSTALLATION

ELECTRICAL DIAGRAM



6

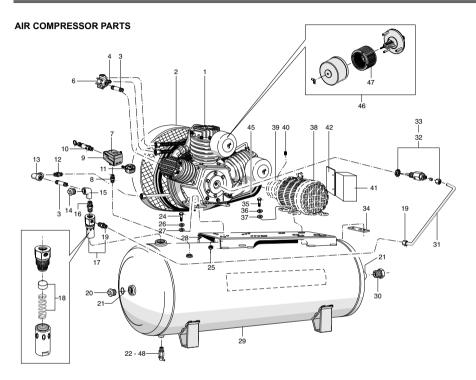
TECHNICAL DATA 15120HW60X



1 709 1307 0 Flywheel 01 32 000 0077 0 HP 4 3/4" ring kit 2 2 1 20505001 32 830 1001 0 MNA Juper gasket kit 32 830 1002 0 43 830 1002 0 HP 90 mm valve plate 48 830 1002 0 1 34 70 1306 0 1 34 70 1306 0 1 43 of volinder 35 70 1306 0 1 <th>02 01 01 02 02 02 01 ver with breather 01</th>	02 01 01 02 02 02 01 ver with breather 01
2	9 kit 01 01 02 01 01 02 01 01 01 02 01 01 02 02 02 01 01 01 01 01 01 01 01 01 01 01 01 01
3 20505001 Flange over 01 34 830 1002 0 HF 90 mm valve plate 6 830 0932 0 1 HF 90 mm valve plate 7 60082501 0 1 93	02 01 02 02 02 01 01
4 830 1033 0/NA Crankcase gasket kit 01 35 709 1306 0 LP 4 3/4" cylinder 5 60082501 01 36 709 1306 0 HP 90 mm cylinder 6 830 0932 0 Lock washer and nut kit 01 37 830 0955 0 LP 4 3/4" valve plate 7 60154502 3109 bearing 01 38 809 1028 0 LP 4 3/4" valve plate 8 "S00 0950 0 NC 1/2" x1" head bot 18 39 809 1027 0 HP 90 mm valve plate 9 20504001 Flange 01 40 709 1272 0 LP 4/3/4" cylinder cov 10 60154501 32211 bearing 01 41 709 1423 0 LP 4/3/4" cylinder cov 11 830 0933 0 Crankshatt kit 01 42 709 1424 0 HP 90 mm cylinder cov	02 01 01 02 02 02 01 ver with breather 01
5 60082501 Oil seal 01 36 709 1308 0 HP 90 mm /ojinder 6 830 0982 0 Dc kwasher and nut kit 01 37 830 0985 0 LP 4 3/4" valve plate 7 60154502 33109 bearing 01 38 809 1028 0 LP 4 3/4" valve plate 8 7 700 000000 10 38 809 1028 0 LP 4 3/4" valve plate 9 20004001 10 20 20 20 20 10 60154501 3221 bearing 01 41 709 1423 0 1P 4 3/4" cylinder cox 11 830 0933 0 Crankshatk kit 01 42 709 1424 0 1P 90 mm cylinder	kit 01 02 02 02 01 01 01 01 01 01 01 01 01 01 01 01 01
7 60154502 33109 bearing 01 38 809 1028 0 LP 4 3/4" valve plate 8 " NC 1/2" x 1" head bo t 18 39 809 1027 0 HP 90 mm valve plat 9 20504001 Flange 01 40 709 1272 0 LP 4 3/4" cylinder cov 10 60154501 32211 bearing 01 41 709 1423 0 LP 4 3/4" cylinder cov 11 830 9033 0 C rankshaft kit 01 42 709 1424 0 HP 90 mm cylinder cov	e 02 01 per with breather 01
8 NC 1/2" x1" head bot 18 39 809 1027 0 HP 90 mm valve plath 9 20504001 Flange 01 40 709 1272 0 LP 43/4" cylinder cou 10 60154501 32211 bearing 01 41 709 1423 0 LP 43/4" cylinder cou 11 80 9033 0 Crankshatk kif 01 42 709 1424 0 HP 90 mm cylinder co	e 01 er with breather 01
8	er with breather 01
10 60154501 32211 bearing 01 41 709 1423 0 LP 4 3/4" cylinder cov 11 830 0933 0 Crankshaft kit 01 42 709 1424 0 HP 90 mm cylinder cr	er with breather 01
10	
1 2 60267503 Key 01 43 *	over 01
	head bolt 12
13 * UNF 3/8" x 3" head bolt 02 44 709 1322 0/C No 1 short intercoole	
14 20508005 Crankshaft counter weight 01 45 709 1322 0/L No 2 long intercooler	01
15 830 0934 0 Auxiliary connecting rod pin kit 02 46 709 1322 0 Intercooler kit	01
16 30008502 Connecting rod 01 47 21011004 3/4" nut for intercoole	r 04 02
17	02
18 60152502 Connecting rod inner bushing 02 49 830 0340 5 1/4" crankcase breath 19 60152501 Connecting rod bushing 03 50 03000564 NPT 1/6" x 1/4" straig 20 30007001 Counter weight with centrifugal mechanism 01 51 830 0599 8 1/4" ring kit 21 830 0937 0 Counter weight kit with centrifugal mechanism 01 52 022 0177 0 1/8" LP ASME safety	
19 60152501 Connecting rod bushing 03 50 003 0054 3 NPT 1/8" x 1/4" straig	ht connection 01
20 30007001 Counter weight with centrifugal mechanism 01 51 830 0599 8 1/4" ring kit	01
21 830 0937 0 Counter weight kit with centrifugal mechanism 01 52 022 0177 0 1/8" LP ASME safety	valve 02
22 * UNF 5/16" x 1 1/4" Allen head bolt 02 53 830 1202 0 Connecting rod with r	needle bearing 01
23 20501002 Crankcase 01 54 019 0079 0 Needle bearing	02 x bolt 05 n hex bolt 06
24 830 0775 0 3/4" oil level sight kit 01 55 013 0752 0 M6 x 1 x 55 Allen hex	: bolt 05
25 003 0029 2 3/8" plug	n hex bolt 06
26 709 1316 0 Crankcase cover 01 57 003 0111 6 BSP 90° 3/4" elbow	02
27 * UNC 5/16" x 3/4" head bolt 06 58 60259501 Straight fitting	01
28 003 0031 4 3/4" plug 01 59 830 1032 0 Washer kit	01
29 60273501 LP 4 3/4" piston 02 60 022 0215 0 HP 1/8" ASME safety	valve 01
30 830 1000 0 HP 90 mm piston 01 61 830 1099 0 No 3 aftercooler kt	01
31 000 0080 0 LP 90 mm ring kit 01	

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

TECHNICAL DATA 15120HW60X

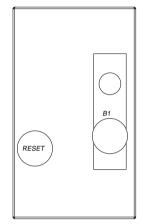


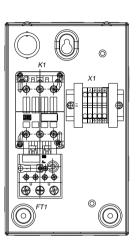
No.	CODE	DENOMINATION	QTY
1	933.9383-0	Bare pump	01
2	830.1010-0	Belt guard	01
3	21011009	3/4 x 100mm nipple	02
4	21011001	NPT 3/4 x 1/2 straight connection	02
6	20517005	Upper tubing adaptor	01
7	012.0845-0	Pressure switch	01
8	003.0174-4	1/4 nipple	01
9	012.0723-0	Strain relief	01
10	022.0057-0	1/4 ASME safety valve	01
11	011.0118-0	Pressure gauge	01
12	003.0051-9	NPT 3/4 x 3/4 straight connection	02
	60255506	BSP 90° 3/4 elbow	01
14	003.0031-4	3/4 plug	01
15	003.0343-0	3/4 side elbow	01
16	003.0036-5	3/4 nipple	01
17	60281501	Check valve	01
18		Check valve kit	01
19	003.0054-3	NPT 1/8 x 1/4 straight connection	01
20	003.0514-0	2 Plug	01
21	023.0339-0	O ring	02
22	022.0206-0	1/4 tank drain valve	01
24	*	W 1/2 x 1.3/4 hex head bolt	04
25		BSW 1/2 hex nut	04

No	. CODE	DENOMINATION	QTY
26	*	½ lock washer	04
2	* *	1/2 washer	04
28	701.0365-0	Support base tank	02
29	25003832A	120 gal hor. tank	01
30	003.0512-0	2 x 1 reduction bushing	01
3.	709.1670-0	1/4 tube	01
32	022.0174-0	Centrifugal unloading valve	01
33		Centrifugal unloading valve kit	01
34		Motor fastening plate	02
3:		3/8 x 1.1/2 hex head bolt	04
36		3/8 lock washer	04
37		3/8 washer	04
38			01
39		Pulley	01
40		3/8 x 1/2 Allen hex without head	01
4			01
42			01
43		Start switch pressure switch cord (not shown)**	01
44		Motor start switch cord (not shown)**	01
4		Belt	02
46			02
47			02
48	709.1246-0	Hose for tank drain (not shown)	01

INSTALLATION

LAYOUT **DIRECT ON LINE STARTERS (D.O.L.)**

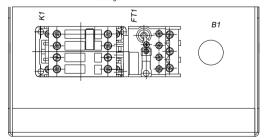


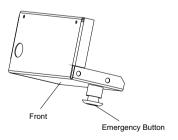


TAG	DESCRIPTION
K1	MAIN CONTACTOR
FT1	OVERLOAD RELAY
B1	EMERGENCY BUTTON
X1	TERMINAL BLOCKS

PARTS LAYOUT 5, 7.5, 10, 15 and 20 hp

Back Sight



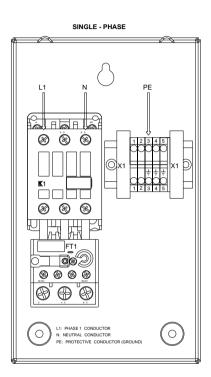


PARTS LAYOUT 5 hp - OPENED D.O.L. STARTER

^{*} Part available in the market - not sold by Schulz.
** Optional start switch

INSTALLATION

WIRING PROCEDURE D.O.L. STARTER



CUSTOMER WIRES LEADS:

MAKE LEADS "L1", "N" AND "PE" TO "1 L1", "5 L3" AND "X1 3" RESPECTIVELY, KEEPTING THE OTHERS CONDUCTORS;

MANUFACTORY WIRES LEADS:

"96 NC" CONECTED TO "A1"

"5 L3" CONECTED TO "A2"

"1 L1" CONECTED TO "RED BUTTON"

"RED BUTTON" CONECTED TO "X1 2"

"X1 2" CONECTED TO "PRESSURE SWITCH"

"PRESSURE SWITCH" CONECTED TO "X1 1"

"X1 1" CONECTED TO "95 NC"

"2 T1" CONECTED TO "3 L2"

"X1 4" AND "X1 5" CONECTED TO "PRESSURE SWITCH" AND "MOTOR"

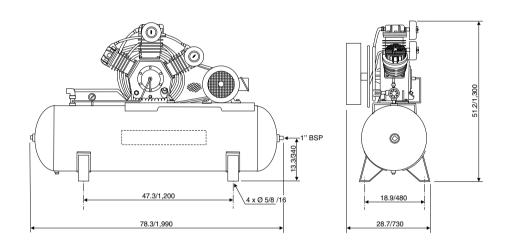
"4 T2" AND "6 T3" CONECTED TO "MOTOR"

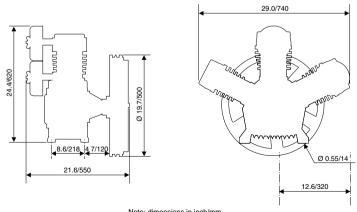
WARNING:

TURN OFF POWER AND DISCONNECT ALL SUPPLY SOURCE BEFORE SERVICING

TECHNICAL DATA 15120HW60X

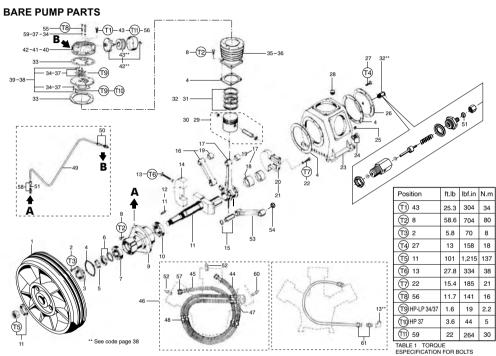
		CEMENT	MAX PR	•	•	TANK		_	Ø PULLEY SIZE		ELECTRIC MOTOR		D SCHARGE	OIL CAP		WEIGHT WITH MOTOR		COLOR REF	
MODEL	cfm	l m n	psig	bar	Geom	Volume gal	rpm	inches	mm	2P	hp	kW	VOLTAGE [V]	SIZE	Volu	me in qt	lbs	Kg	Black
15120HW60X	60	1,700	175	12	427	113	1,065	5.9	150	2-B	15	11.3	Three phase 208/230/460	1"	1,500	1,580	975	442	(pump) Gray (tank)





Note: dimensions in inch/mm.

TECHNICAL DATA 10120HW40X



No.	CODE	DENOMINATION	QTY
1 2 3 4 4 5 6 6 7 7 8 9 9 10 11 12 13 13 14 15 6 17 7 18 19 20 12 22 23 24 22 5 26 27 28 29 30	20500001 8301033 0/NA 60082501 8301033 0/NA 60082501 830 0932 0 60154502 20504001 830 0933 0 60267503 20508005 830 0934 0 60267503 20508005 830 0934 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002 830 0775 0 20501002	Flywheel UNC 1/4" x 3/4" head bolt Flange cover Crankcase gasket kit Oil seal Lock washer and nut kit 33/19 bearing Say X 1" head bolt Flange cover Grankchaft kit Key UNF 3/6" x 3" head bolt Crankshaft kit Key UNF 3/6" x 3" head bolt Crankshaft counter weight Auxiliary connecting rod pin kit Connecting rod Master connecting rod Master connecting rod bush ng Counter weight kit with centrifugal mechanism UNF 5/16" x 1 1/4" Allen head bolt Crankcase cover 3/4" oil evel sight kit 3/4" plug and sight kit 3/4" plug and sight kit 4/4" piston LP 4/4" piston LP 4/4" piston LP 90 mm piston	911 01 01 01 01 01 01 01 01 01 01 01 01 0

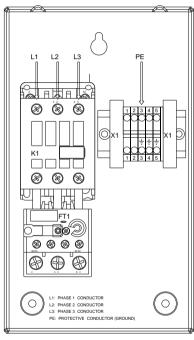
Ш	No.	CODE	DENOMINATION	QTY
li	32	000 0077 0	HP 4 3/4" ring kit	02
ш	33	830 1001 0/NA	Upper gasket kit	01
ш	34	830 1002 0	HP 90 mm valve plate kit	01
ш	35	709 1306 0	LP 4 3/4" cylinder	02
ш	36	709 1308 0	HP 90 mm cylinder	01
ш	37	830 0955 0	LP 4 3/4" valve plate kit	02
ш	38 39	809 1028 0	LP 4 3/4" valve plate	02
ш	39	809 1027 0	HP 90 mm valve plate	01
ш	40	709 1272 0	LP 4 3/4" cylinder cover with breather	01 01
ш	41	709 1423 0	LP 4 3/4" cýlinder cover	01
ш	42	709 1424 0	HP 90 mm cylinder cover	01
ш	43	*	LP UNC 3/8" x 1 1/2" head bolt	12
Ш	44	709 1322 0/C	No 1 short intercooler	01
Ш	45	709 1322 0/L	No 2 long intercooler	01
ш	46	709 1322 0	Intercooler kit	01
ш	47	21011004	3/4" nut for intercooler	04
ш	48	21029003	Intercooler holder	02
ш	49	830 0340 5	1/4" crankcase breather tube	01
ш	50	003 0054 3	NPT 1/8" x 1/4" straight connection	01
ш	51	830 0599 8	1/4" ring kt	01
ш	52 53	022 0177 0	1/8" LP ASME safety valve	02
ш	53	830 1202 0	Connecting rod with needle bearing	01
ш	54	019 0079 0	Needle bearing	02
ш	55 56	013 0752 0	M6 x 1 x 55 Allen hex bolt	05
ш	56	383 0111 0	HP 5/16" x 1 1/2" Allen hex bolt	06
ш	57	003 0111 6	BSP 90° 3/4" e bow	02
П	58	60259501	Straight fitt ng	01
П	59	830 1032 0	Washer kit	01
П	60 61	022 0215 0	HP 1/8" ASME safety valve	01 01
П	61	830 1099 0	No 3 aftercooler kit	U1
Ιl				

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

INSTALLATION

WIRING PROCEDURE D.O.L. STARTER

THREE - PHASE



CUSTOMER WIRES LEADS:

MAKE LEADS "L1", "L2", "L3" AND "PE" TO "1 L1", "3 L2",

"5 L3" AND "X1 3" RESPECTIVELY, KEEPTING THE OTHERS CONDUCTORS;

MANUFACTORY WIRES LEADS:

"96 NC" CONECTED TO "A1"

"5 L3" CONECTED TO "A2" *

"1 L1" CONECTED TO "RED BUTTON" **

"RED BUTTON" CONECTED TO "X1 2"

"X1 2" CONECTED TO "PRESSURE SWITCH"

"PRESSURE SWITCH" CONECTED TO "X1 1"

"X1 1" CONECTED TO "95 NC"

"X1 4" AND "X1 5" CONECTED TO "PRESSURE SWITCH" AND "MOTOR"

"2 T1", "4 T2" AND "6 T3" CONECTED TO "MOTOR"

WARNING:

TURN OFF POWER BEFORE SERVICING

COMPRESSOR FLYWHEEL ROTATION SHOULD BE COUNTERCLOCKWISE WHEN FACING FLYWHEEL

IF COMPRESSOR FLYWHEEL ROTATION IS REVERSED (CLOCKWISE), QUICLY TURN OFF THE POWER AND DISCONNECT ALL SUPPLY SOURCE AND INTERCHANGE THE "L1" AND "L2" WIRES

NOTE:

The "wiring procedure" is only for reference also " Electrical Diagram" see page 5

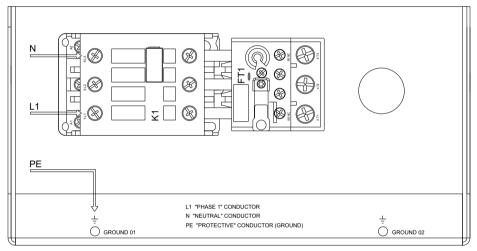
* For the product version in 460V

The command wiring is carried out by a step down transformer from 460V to 230V as showed on page 5 by "T"

INSTALLATION

WIRING PROCEDURE

SINGLE PHASE OPENED D O L STARTER



CUSTOMER WIRES LEADS:

MAKE LEADS "L1", "N" AND "PE" TO "1 L1", "5 L3" AND "GROUND 01" RESPECTIVELY, KEEPTING THE OTHERS CONDUCTORS;

MANUFACTORY WIRES LEADS:

"96 NC" CONECTED TO "A1"

"5 L3" CONECTED TO "A2"

"1 L1" CONECTED TO "RED BUTTON"

"RED BUTTON" CONECTED TO "PRESSURE SWITCH"

"PRESSURE SWITCH" CONECTED TO "95 NC"

"2 T1" CONECTED TO "3 L2"

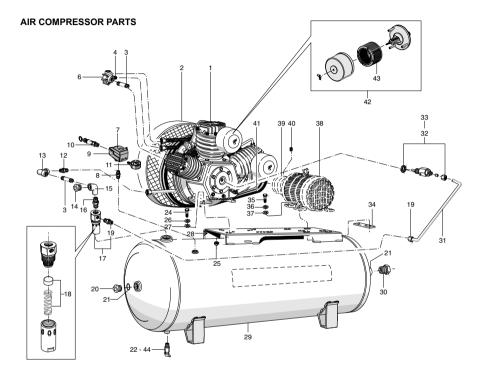
"4 T2" AND "6 T3" CONECTED TO "MOTOR"

"GROUND 02" CONECTED TO "MOTOR"

WARNING:

TURN OFF POWER AND DISCONNECT ALL SUPPLY SOURCE BEFORE SERVICING

TECHNICAL DATA 10120HW40X



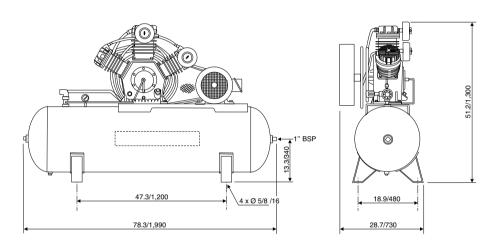
No.	CODE	DENOMINATION	QTY
1	-	Bare pump	01
2	830.1010-0	Belt guard	01
3	21011009	3/4 x 100mm nipple	02
4	21011001	NPT 3/4 x 1/2 straight connection	02
6	20517005	Upper tubing adaptor	01
7	012.0845-0	Pressure switch	01
8	003.0174-4	1/4 nipple	01
9	012.0723-0	Strain relief	01
10	022.0057-0	1/4 ASME safety valve	01
11	011.0118-0	Pressure gauge	01
12	003.0051-9	NPT 3/4 x 3/4 straight connection	02
13	60255506	BSP 90° 3/4 elbow	01
14	003.0031-4	3/4 plug	01
15	003.0343-0	3/4 side elbow	01
16	003.0036-5	3/4 nipple	01
17	60281501	Check valve	01
18	34004508	Check valve kit	01
19	003.0054-3	NPT 1/8 x 1/4 straight connection	01
	003.0514-0	2 Plug	01
21	023.0339-0	O ring	02
22	022.0206-0	1/4 tank drain valve	01

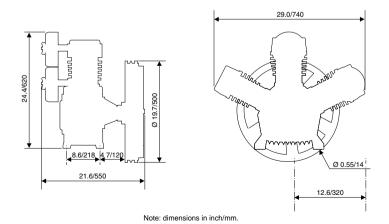
	No.	CODE	DENOMINATION	QTY
7	24	*	W 1/2 x 1.3/4 hex head bolt	04
	25		BSW 1/2 hex nut	04
	26		1/2 lock washer	04
	27		1/2 washer	04
	28	701.0365-0	Support base tank	02
	29	25003832A	120 gal hor, tank	01
	30	003.0512-0	2 x 1 reduction bushing	01
	31	709.1670-0	1/4 tube	01
	32	022.0174-0	Centrifugal unloading valve	01
	33	830.1043-0	Centrifugal unloading valve kit	01
	34	21028503	Motor fastening plate	02
	35		3/8 x 1.1/2 hex head bolt	04
	36		3/8 lock washer	04
	37		3/8 washer	04
	38	015.0602-0	Motor 208/230/460V (three-phase)	01
	39	709.1675-0	Pulley	01
	40	*	5/16 x 3/8 Allen hex without head	02
	41	004.0132-0	Belt	02
- [42		3/4 NPT air filter	02
- [43		Filter element	02
- [44	709.1246-0	Hose for tank drain (not shown)	01

^{*} Part available in the market - not sold by Schulz.
** Optional start switch

TECHNICAL DATA 10120HW40X

			MAX PRESSURE		TANK		Qı	© Ø PULLEY		BELT SIZE	ELECTRIC MOTOR			D SCHARGE	OIL CAP		WEIGHT WITH MOTOR		COLOR REF
MODEL	cfm	l m n	psig	bar	Geom	Volume gal	rpm	2 inches	2P inches mm		hp	kW	VOLTAGE [V]	SIZE	Volume ml in qt		lbs	Kg	Black
10120HW40X	40	1,132	175	12	427	113	710	4.1	105	2-B	10	7.5	Three phase 208/230/460	1"	1,500	1,580	878	397	(pump) Gray (tank)





INSTALLATION

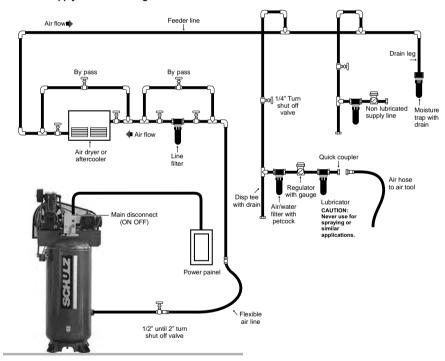
AIR DISTRIBUTION NETWORK TYPICAL INSTALLATION DIAGRAM

This diagram is only a guide to a typical air system. Your needs may be different and you should consult a professional for more information regarding your particular installation.

A DANGER

IMPORTANT

Follow all safety precautions and warnings always turn off and lockout/tagout the main power supply before serviving unit.





To remove moisture from air line, the main feeder line must run downhill to drain-leg at a rate of 3/4" to 1" every 10'.



Recommended pipe and fittings: black iron pipe no smaller than tank outlet size (NPT). For systems over 100 feet in length increase by one pipe size or loop air lines back to receiver.

START-UP CHECKLIST

WARNING

Never assume a compressor is safe to work on just because it is not operating. It could restart at any time. Follow all safety precautions and guidelines outlined in this manual.

Go hrough this checklist **before** you start the compressor for the first ime.

A WARNING

Failure to perform the steps outlined in the start-up checklist, may result in mechanical failure, property damage, serious personal injury or even death.

1. Review Installation parameters in the prior section.

Double-check hese items:

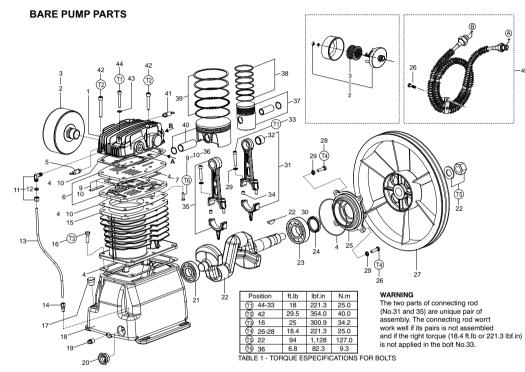
- Distance from walls at least 30".
- Properly mounted.
- Flexible coupler between compressor and shop.
- No toxic, volatile, or corrosive fumes in the area.
- Correct wire size, fuses, or circuit breakers.
- 2. Check the oil level in the pump and add if necessary.
- 3. Check that all pressure relief valves are in place and operational.
- 4. Check that the air filter is in place and securely mounted.
- 5. Remove all loose objects and tools around the compressor installation.
- 6. Open the service valve and any other shut off valves in the air system.
- 7. On three phase compressors, "bump" the motor to verify that you have the correct rotation (CCW facing the shaft). Reverse if necessary.

BREAK-IN PROCEDURES

After completing the START-UP CHECKLIST you are ready to run the compressor. Always go through this procedure before restar ing your unit, if you have moved it to a new location or have had service on the pump or motor.

- 1. Start the compressor and check for excessive noise or vibration. If there is any condition that appears unsafe, stop the compressor immediately and fix the problem. If the compressor is running normally, allow the unit to pump for ten minutes before closing the service valve and allowing the compressor to pump up and shut off. Check the system for leaks.
- Pay close attention to the compressor for the first hour of use. It is not necessary to run the compressor "un-loaded" to seat the rings.
- 3. During he first full day of running the compressor you should note how many times an hour the compressor is starting. During an "average" hour you should check what percent of those 60 minutes the compressor is running. If the compressor starts more than eight times or runs for more than 75 percent of an average hour, you need more air.

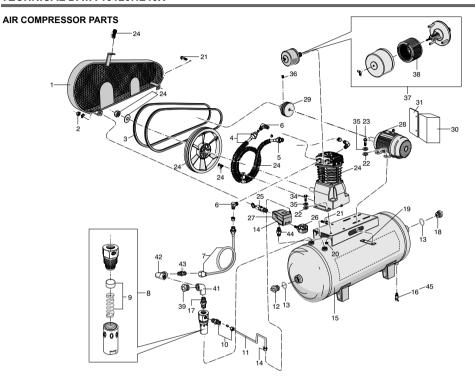
TECHNICAL DATA 10120HL40X



No.	CODE	DENOMINATION	QTY	No.	CODE	DENOMINATION	QTY
1 2 3 4 4 5 6 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	709.1583-0 809.1086-0 007.0118-0	Cylinder cover 1" NPT Air filter Filter element	01 01 01 01 01 01 01 01 01 01 01 01 01 0	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	60082501 709.1577-0 709.1611-0 709.0147-1 830.1093-0 019.0028-0 809.1083-0 830.1079-0 830.1078-0 830.1091-0 108.0121-0 0022.0015-0 830.1083-0 709.1663-0 0030151-5 210111002	Oil seal Flange 5/16" x 1.1/4" Hex. head bolt** Flywheel 5/16" x 1.1/4" Hex. head bolt 5/16" lock washer Key HP connecting rod with needle bearing kit Needle bearing 5/16" x 1.3/4 Allen hex. head bolt Guide bushing connecting rod LP connecting rod kit 1/4" x 5/8" Flat head bolt HP 0.2 1/2" piston HP 2. 1/2" rigston HP 2. 1/2" ring kit LP 120mm ring kit LP 120mm ring kit LP 120mm ring kit LP 120mm ring kit LP 130mm ring kit LP 130mm ring kit LP 140mm ring kit S/16" x 2" Allen hex. head bolt Intercooler kit NPT 3/4" x 3/4" straight connection (not shown) BS 3/4" x 3/4" straight connection (not shown)	01 01 01 01 03 08 01 01 01 04 04 04 04 01 01 01 01 01 01 01 01 01 01 01 01 01

^{*} Part available in the market - not sold by Schulz. ** Assembled of the intercooler holder (item 45). Note: HP = high pressure LP = low pressure

TECHNICAL DATA 10120HL40X



No.	CODE	DENOMINATION	QTY		No.	CODE
1	830.1208-0	Belt guard	01		23	*
2		1/4 hex nut	02	Ш	24	932.9324-
3	004.0128-0	Belt	02	Ш	25	022.0057-
4	709.1663-0	Intercooler	01		26	011.0118-
5	21011002	NPT 3/4 straight connection	03		27	012.0723-
6	003.0151-5	BSP 3/4 elbow	03		28	015.0602-
7	709.1667-0	Aftercooler	01		29	709.1612-
8	60281501	Check valve	01		30	012.0937-
9	34004508	Check valve kit	01	Ш	31	701.0379-
10	003.0005-5		01	Ш	32	012.0907-
11	709.1669-0		01	Ш	33	012.0908-
12	003.0514-0	2 Plug	01		34	٠ .
13	023.0339-0	O ring	02		35	٠ .
14	012.0845-0		01		36	٠ .
15	25003832A		01		37	809.1086-
16	022.0206-0	1/4 tank drain valve	01		38	007.0118-
17	003.0036-5	3/4 Nipple	01		39	003.0031-
18	003.0512-0	2 x 1 Reduction bushing	01		41	003.0343-
19	21028503	Motor fastening plate	02	Ιl	42	003.0151-
20		3/8 hex nut	04	Ιl	43	21011002
21		1/4 x 3/4 hex head bolt	02	ıl	44	1003.0033-

	No.	CODE	DENOMINATION	QTY	
1	23		3/8 x 1.1/4 hex head bolt	04	
l	24	932.9324-0	Bare pump	01	
l	25	022.0057-0	1/4 ASME safety valve	01	
l	26	011.0118-0	Pressure gauge	01	
l	27	012.0723-0	Strain relief	01	
l	28	015.0602-0	Motor 208/230/460V (three-phase)	01	
l	29	709.1612-0	Pulley	01	
l		012.0937-0	Start switch**	01	
l	31	701.0379-0		01	
l		012.0907-0	Start switch pressure switch cord (not shown)**	01	
ı	33	012.0908-0	Motor start switch cord (not shown)**	01	
l	34		3/8 x 1.1/2 hex head bolt	04	
l	35		3/8 lock washer	08	
l	36		3/8 x 1/2 Allen hex without head	01	
l	37	809.1086-0	Air filter	01	
l	38	007.0118-0	Filter element	01	
l	39	003.0031-4	3/4 plug	01	
l	41	003.0343-0	3/4 side elbow	01	
l	42		BSP 90° 3/4 elbow	01	
l	43		NPT 3/4 x 3/4 straight connection	02	
l	44	003.0033-0	1/4 nipple	01	
ı	45	709.1246-0	Hose for tank drain (not shown)	01	

^{*} Part available in the market - not sold by Schulz. ** Optional start switch

BREAK-IN PROCEDURES

- 4. After eight hours of running, check the oil level and look for any oil leaks. Turn the compressor off and bleed down the tank pressure to about 20 psi and open he drain valve to allow all of the moisture to drain from the tank. Allow the pump to cool and torque the head bolts and the bolts which hold the inner and after cooler.
- 5. We recommend that you change your oil after the first 8 hours of opera ion. This could help remove any small particles in the pump and will improve the life of the pump.
- **6.** After the first week of opera ion follow he guidelines in the MAINTENANCE SCHEDULE.

MAINTENANCE SCHEDULE

THE LIFE OF YOUR COMPRESSOR WILL BE DETERMINED BY HOW IT IS MAINTAINED.

- A clean pump will run cooler, causing less moisture in the tank and lines. Since the cooler the air is, the easier it is to compress, cleaning of the pump will make the motor and pump run less and save you money.
- A clean air filter will allow you to compress more air per ciyle. A dirty air filter causes the oil from he crankcase to be sucked up past the piston rings if happens you get MAJOR problems. First, the oil gets into your air system, mixes with the water vapor in the lines and creates a "mayonnaise" that can foul up tools and destroy paint systems with "fish eye". Secondly, the oil becomes baked onto the valve plates where it builds up and cuts the efficiency of the pump dramatically.
- Clean oil at the proper level in the crankcase is your best insurance against pump failure.
- A dry tank will last many more years than a tank with water sitting in it rusting away metal. The tank is a great heat sink and will take out the bulk the moisture that is in your air system if you drain it.

WARNING

Turn off power before servicing and be sure he 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-belt for tightness. Belt tension should be adjusted to allow approximately 3/8" to 1/2" (9 to 13 mm) deflection with normal thumb pressure, see Figure page 16.
- 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 he pressure switch operation.
- Check for oil contamination and change it if necessary.

MAINTENANCE SCHEDULE

QUARTERLY

- Change the air filter element every 300 working hours or quarterly. (Whichever occurs first).
- Fasten bolts and nuts as required.
- 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 and ASME 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 oil changes should be made after 200 hours of operation, or 60 (sixty) days, whichever occurs first.

NOTE:

Heavy Duty and mul i-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:

14

SERVICE PROCEDURES

WARNING

Never assume a compressor is safe to work on just because it is not operating. It could restart at any time. Follow all safety precautions and guidelines outlined in this manual.

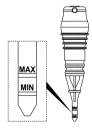
CRANKCASE OIL - The oil level should be half way to three quarters up the sight gauge when the compressor is stopped.

Do not over fill or check the oil level while the pump is running. Compressor must be level.

Use non-detergent, petroleum based, compressor or automotive grade oil only. Detergent or synthetic oil can damage the pump, cause excessive leaks, and will void the warranty. DO NOT USE SYNTHETIC OIL IN THIS PUMP!

RECOMMENDED LUBRICANT OILS FOR SCHULZ AIR PUMPS

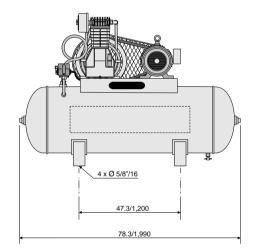
АМІ	BIENT TEMPERATURE	°F (°C)
Below 32 °F	32 °F to 68 °F	68 °F to 104 °F
Below 0 °C	0 °C to 20 °C	20 °C to 40 °C
SAE 10W	SAE 20W	SAE 30
or	or	or
ISO 32	ISO 68	ISO 100

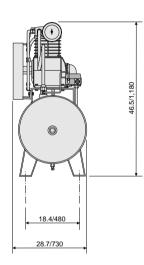


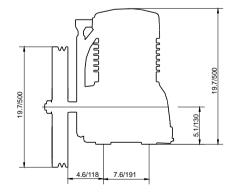


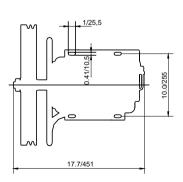
TECHNICAL DATA 10120HL40X

				ESSURE	TANK		Q1	⊚ Ø PULLEY		BELT SIZE	E	LECT	RIC MOTOR	DISCHARGE OIL CAP		АР	WEIGHT WITH MOTOR		₽ ■■ COLOR REF
MODEL	cfm	l/min	psig	bar	Geom	Volume gal	rpm	2l inches	mm	2P	hp	kW	VOLTAGE [V]	SIZE	Volui ml	me in qt	lbs	Kg	Black
10120HL40X	40	1,132	175	12	427	113	1,020	5.9	150	2-A	10	7.5	Three phase 208/230/460	1"	1,500	1,580	596	270	(pump) Gray (tank)



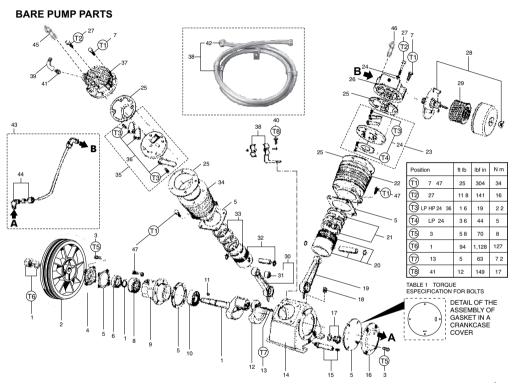






Note: dimensions in inch/mm.

TECHNICAL DATA 7.580HV30X



No.	CODE	DENOMINATION	QTY	No.	CODE	DENOMINATION	QTY
No. 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	830 0609 9 709 1277 0 709 0139 0 830 0954 0/NA 023 0099 0 019 0006 4 709 1221 0 382 0028 3 709 0147 1 709 0930 8 013 0467 4 709 1191 0 830 0205 0 709 1273 0 830 0775 0 003 0028 4 709 0732 1	DENOMINATION Crankshaft Final Live State Li	QTY 01 01 01 08 01 01 01 01 01 01 01 01 01 01 01 01 01	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	830 0956 0/NA 709 1272 0 809 1085 0 007 0118 0 830 0632 0 019 0028 0 830 0682 0 709 1193 0 830 0982 0 709 1193 0 830 0982 0 709 129 0 830 0957 0 709 1283 4 003 0111 6 21011002 21011004	DENOMINATION Upper gasket kit LP 120mm vpilinder cover M8 x 1,0 x 55 Allen head bolt Air filter Filter element HP connecting rot with needle bearing Needle bearing Needle bearing Needle bearing 1HP 0 2 1/2° piston HP 2 1/2° ring kit HP 2 1/2° vyjinder HP 3/4° alle kit HP 2 1/2° vyjinder Kit 90° MF 3/4° allow UNC 5/16° x 5/6° LT head bolt 3/4° x 3/4° straight connection 3/4° x 3/4° intercooler	QTY 01 01 01 03 01 01 01 01 01 01 01 01 01 01 01 01 01
20 21 22 23 24	016 0004 4 830 0981 0 709 1192 0 809 1028 0 830 0955 0	LP 0 120mm piston LP 120mm ring kit LP 120mm vilinder LP 120mm valve plate LP valve plate kit	01 01 01 01 01	43 44 45 46 47	830 0340 5 003 0005 5 022 0215 0 022 0177 0	Crankase breather tube NPT 1/8" x 1/4" elbow HP 1/8" ASME safety valve LP 1/8" ASME safety valve UNC 3/8" x 1" LT head bolt	01 02 01 01 14

^{*} Part available in the market - not sold by Schulz.

HP = high pressure LP = low pressure

MAINTENANCE SCHEDULE

Change the oil when the compressor is warm so that the oil will drain out of the crankcase easier. Carefully open the plug on the crankcase drain, open the ball valve and drain he oil into a suitable container. Remove the crankcase fill plug to make the oil flow out faster. Allow the crankcase to drain completely. Replace the plug, and fill the crankcase to the proper level. Check the level carefully after he first day of use. Please recycle the used oil.



Never attempt to change or fill the oil while the compressor is running. Do not work on the pump while it is hot as some parts of the pump can cause severe burns to unprotected skin. Never use flammable solvents to clean the pump or the intake system.

AIR FILTER - To service the air filter, remove the wing nut and cover that hold the element on to he intake assembly. Inspect he element and clean or replace as needed. Paper filters can be tapped out and back flushed with low-pressure air several imes before they must be replace. Fiber (Micronite) filters can be washed out with soapy water, rinsed, and reused until the element material starts to deteriorate. Never use solvents to clean the filter or inlet parts. Always keep extra filter elements on hand. NEVER RUNTHE COMPRESSOR WITHOUTAFILTER. Clean all parts and re-assemble in reverse order.

DRAIN THE TANK - To drain the moisture from the tank you should first reduce the air pressure in the tank and air lines to a safe pressure, around 20 psi. Open he drain valve and drain the moisture into a suitable container for disposal. All piston pumps have some level of oil bypass the rings and get pumped into the tank. This oil is measured in parts per million (PPM) and mixes with the moisture in the tank to form a whitish "mayonnaise" like substance.

Check with local codes concerning the discharge of this fluid directly into the sewer system.

Compressors used in commercial applica ions should be drained at least once a day. If you only run your compressor occasionally, it should be drained after each time you use it. Shops that run multiple shifts a day should have automatic drains to help reduce the moisture build up in the tank. A 5 HP compressor can dump as much as a gallon of moisture a day into the tank.

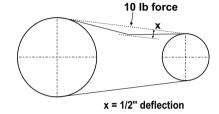
VALVES - The compressor pump has a set of reed valves manufactured from the highest quality stainless steel. These valves and he valve plates that hold them in place need to be maintained in order for he pump to work at it's normal capacity. Once the valves become caked with carbonized dirt and oil they loose their ability to open and close properly and the amount of air that the compressor can make is dramatically compromised. Before starting this maintenance procedure you should make sure that you have a set of the gaskets you need to replace when you open up the pump.

- 1. Remove the air inlet assembly, inter cooler, and after cooler from the cylinder head of he pump.
- 2. Remove the cylinder head bolts after loosening all of them evenly, from the center out.
- 3. Remove the cylinder head and valve plates from the cylinder. Separate the head from the valve plates taking care to note the position of the valve plates for re-assembly. Use caution when separa ing he parts as the gaskets may be stuck together. Inspect the condition of the cylinder and piston for damage.
- 4. Clean the valves and valve plates with a stiff bristle brush or other suitable device. Do not use a steel wire brush as severe damage may result to the valve seat or valve.
- 5. Use clean safety solvent to loosen carbon deposits. NEVER use gasoline, thinners or other flammable solutions to clean valves or related parts. Remove all broken or defective gasket material.
- 6. To re-assemble the valve plates, a small amount of light grease or petroleum jelly can be used on clean, dry surfaces to hold the reed valves in place while they are assembled. Reserve the order to complete this operation and follow he recommended torque set ings for the head bolts. Use a crosshatch pattern when ightening he head bolts.
- Turn the pump over by hand several revolutions to make sure there are no problems. Review the START-UP CHECKLIST and follow the recommended BREAK-IN PROCEDURES. Re-torque the head bolts and check for leaks after one hour of running.

MAINTENANCE SCHEDULE

BELT TENSION - Proper belt tension and pulley alignment must be maintained for maximum drive efficiency and belt life. The correct tension exists if a deflection of 1/2" occurs by placing 10 pounds of force midway between the motor pulley and the pump flywheel. See figure below. This deflection can be adjusted using the following procedure.

- 1. Remove belt guard.
- 2. Loosen the motor mounting bolts. Remove belts.
- Shift the motor to the point where the correct tension exists.
- 4. Retighten motor moun ing bolts. Replace belts.
- 5. Check the tension again.
- 6. Replace the belt guard.

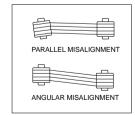


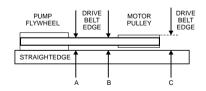


Do not operate the compressor with any of its safety guards, shields, or screens removed. Never cause the compressor to run at speeds in excess of the factory set RPM. Always follow all safety precautions and warnings when performing service.

PULLEY ALIGNMENT - Three examples of pulley misalignment are shown below. To check the pulley alignment, remove he beltguard and place a straight edge against the pump flywheel. Measure the distance from the straight edge to the motor pulley at several points. If the pulley needs to be adjusted, follow the procedure below.

- 1. Loosen the motor mounting bolts.
- 2. Loosen the setscrews on the motor pulley.
- 3. Align the motor pulley using he straight adge as a guide.
- 4. Retighten the motor pulley setscrew using thread-looking fluid.
- 5. Adjust the belt tension as described previously.
- 6. Retighten the motor moun ing bolts.
- 7. Replace the belt guard and test.



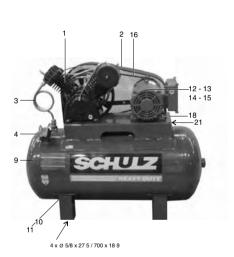


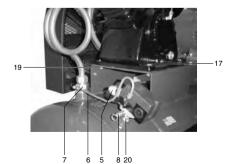
TECHNICAL DATA 7.580HV30X

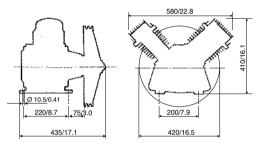
	DISPLAC	IIIII EMENT	MAX PR	•	() T	ANK	Qľ	Ø PUL		BELT SIZE	E	LECT	RIC MOTOR	DISCHARGE	OIL C	AP		ITH MOTOR	COLOR REF
MODEL	cfm	l/min	neia	bar	Geom	Volume	rpm	inches	mm		hp	kW	VOLTAGE IVI	SIZE	Volu	me	lbs	Kg	Black
	cim	vmin	psig	Dar	l	gal	rpm	ilicites				×**	VOLINGE [V]		ml	in qt	ibs	- Ng	
7.580HV30X	30	850	175	12	300	80	960	9.0	226	2-A	7.5	5.6	Single phase 230	1/2"	0,880	0 020	508	230	(pump) Gray
7.56UHV3UX	30	030	1/5	12	300	80	900	4.5	115		7.5	5.6	Three phase 208/230/460	1/2	0,000	0,920	306	230	(tank)

Compressor dimension (inch/mm)
Height 42 7/1,085, lenght 55/1,400, width 25 2 / 640

AIR COMPRESSOR PARTS







Note: dimensions in inch/mm.

No.	CODE single-phase	CODE three-phase	DENOMINATION	QTY
1			Bare pump	01
2	830.1222-0	830.1222-0	Belt guard	01
3	709.1228-0	709.1228-0	Aftercooller	01
4	012.0845-0	012.0845-0	Pressure switch	01
5	011.0114-0	011.0114-0	Pressure gauge	01
6	709.1679-0	709.1679-0	1/4 tube	01
	022.0213-0	022.0213-0	Check valve	01
8	022.0162-0	022.0162-0	1/4 ASME safety valve	01
9	25003837	25003837	80 gal vertical tank	01
10	022.0206-0	022.0206-0	1/4 tank drain valve	01
11	709.1246-0	709.1246-0	Hose for tank drain (not shown)	01
12	015.0616-0	015.0583-0	Motor 208/230/460V 2P Motor 230V 4P	01
13				01
14	709.0928-0	709.1426-0	Pulley 4P	01
15		709.1661-0	Pulley 2P Belt	01
16 17	004.0125-0	004.0110-0	3/8 x 1.1/2 hex head	02 04
18	1 :		3/8 x 1.1/2 nex nead	04
	1 :			04
19 20		003.0174-4	3/8 hex nut 1/4 niple	04
21	003.0174-4	21028503		02
L21	21028503	21028503	Motor fastening plate	02

* Part available in the market - not sold by Schulz.

TECHNICAL DATA 7.580VV30X

^{*} Part available in the market - not sold by Schulz.

HP = high pressure LP = low pressure

TROUBLESHOOTING

TROUBLE	POSSIBLE CAUSE	CORRECTIVE ACTION
Compressor	No electrical power	Check or have system checked
will not start	Tank pressure is between starting and stopping pressures	Wait until pressure drops
	Wrong fuse size	Replace with correct size
Motor	High ambient temperature	Provide ventilation. Check distance from the wall
overheats, blows fuses	Wrong wire size	Have electrical system checked
or overload relay cuts out	Thermal overload tripped	Allow to cool and reset overload relay
	One leg of supply line interrupted	Check all fuses and terminals for tightness. Check each leg
	Air filter dirty	Clean or replace element
	Oil level too high	Do not overfill crankcase
Pump using	Breather valve malfunctioning	Check valve and fix if broken
too much oil	Piston rings worn or broken	Ckeck rings and replace if necessary
	Oil leaks	Tighten pump bolts or replace leaking gaskets
	Wrong oil viscosity, synthetic oil	Drain and refill with proper oil
Tank does not	Diaphagm in pressure switch defective	Replace pressure switch
hold pressure	Leaking fittings	Check for leaks and tighten
	High moisture level in tank	Drain tank
Compressor	Check valve leaks	Drain air. Remove and fix
starts more than seven	Pressure switch set incorrectly	Check cut in and cut out setting
times per hour	Excessive air requirements	Decrease shop consumption by installing a regulator. Add another compressor to supply
	Leaks in air system	Inspect air system and fix
	Excessive air requirement	Determine if compressor is properly sized for job
Compressor takes too long	Compressor not in optimal condition	Perform maintenance, check for loose belts, dirty air filter
to fill tank	Dirty, sticking or damaged valves	Remove cylinder head and clean, replace damaged reed valves and gaskets
	Compressor not properly installed	Level the tank feet with vibration isolators and shims
Compressor	Mounting bolts too loose	Torque mounting bolts evenly
vibrates	Pulley and flywheel mis-aligned	Realign per manual
	Belts loose	Tighten per manual

TROUBLESHOOTING

TROUBLE	POSSIBLE CAUSE	CORRECTIVE ACTION
	Compressor air intake restricted	Clean or replace filter element
Oil in	Excessive oil in the cranckcase	Drain level to mid sight glass/dipstick, see Figure page 14
discharge	Wrong oil viscosity	Drain pump and refill with the proper oil
air	Worn rings	Replace rings
	Crankcase breather valve sticking	Clean or replace
Water in the cranckcase Oil appears milky	Compressor not running long enough to vaporize the water	Allow the compressor to run enough each day to vaporize the water
0	Pressure switch diaphragm leaking	Replace pressure switch
Compressor leaks down	Check valve leaking	Drain tank, remove, clean and check valve. Replace if defective
when off	Fitting or valve leaking	Check for leaks and fix problem

LIMITED WARRANTY

Limited Warranty

Bare Pumps and Air Compressors manufactured by SCHULZ are warranted to be free from defects in material and workmanship under normal use for a period of 2 years on the pumps and 1 year on the remaining items, from date of purchase of the end user, except the Contractor Line of Products and all Gasoline Engine driven products. The warranty on contractor/engine driven models is 3 months. A proof of purchase must be provided by the user to receive service under warranty. This warranty is extended to original purchaser for use of he SCHULZ product (only) and is not transferable.

Where to repair product under Warranty

Only the Schulz Authorized Retail Store where the product was pruchased can provide warranty services. Any service performed by a non au horized service person, voids the warranty. Engines must be taken to he proper factory authorized service center, I.e. Briggs & Stratton, Honda, Kohler, Robin.

What is covered under Warranty

Materials, parts and labor to repair the product are covered by this warranty. For products of 5HP and over, travel/mileage expenses are allowed. See limitations.

What is not covered by Warranty

Defects and damages from failure to perform factory suggested maintenance, wrong application, excessive wear and tear and rental use. Freight is not covered under warranty. Any loss of "shop time" is not covered by this warranty. Warranty is not to be considered a free maintenance program.

18

TECHNICAL DATA 7.580VV30X

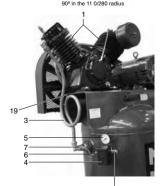
<u> </u>	DISPLAC		MAX PR	~	(ANK	Qı	Ø PUL		BELT SIZE	E	LECT	RIC MOTOR	DISCHARGE	OIL C	:AP		TH MOTOR	COLOR REF
MODEL	cfm	l/min	psig	bar	Geom	Volume gal	rpm	inches	mm		hp	kW	VOLTAGE [V]	SIZE	Volu ml	me in qt	lbs	Kg	Black
7.580VV30X	30	850	175	12	300	80	960	9.0	226	2-A	7.	5.6	Sing e phase 230	1/2"	0.880	0.920	508	230	(pump) Gray
1.36UVV3UX	30	030	1/5	'2	300	80	900	4.5	115		1.5	5.6	Three phase 208/230/460		0,000	0,920	308	230	(tank)

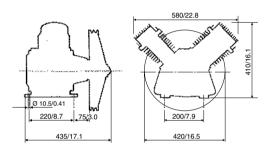
Compressor dimension (inch/mm)

Height 74 8/1,900, lenght 39 3/1,000, width 25 2 / 640

AIR COMPRESSOR PARTS





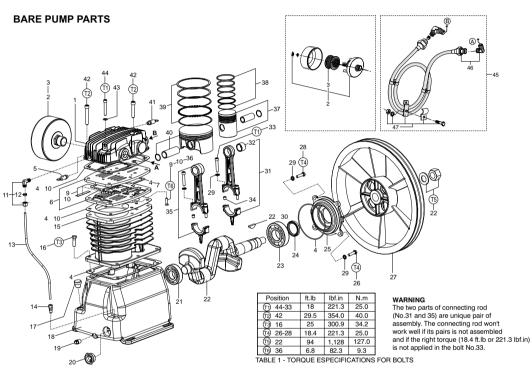


Note: dimensions in inch/mm.

No.	CODE single-phase	CODE three-phase	DENOMINATION	QTY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	830.1222-0 709.1657-0 012.0845-0 011.0114-0 709.1650-0 022.0213-0 022.0213-0 022.02162-0 709.1246-0 709.0928-0 04.0125-0	830.1222-0 709.1657-0 012.0845-0 011.0114-0 709.1650-0 022.0213-0 022.0213-0 022.02162-0 05.003775A 022.0206-0 015.0583-0	Bare pump Belt guard Aftercooller Pressure switch Pressure gauge 1/4 tube Check valve 1/4 ASME safety valve 80 gal vertical tank 1/4 tank drain valve Hose for tank drain (not shown) Motor 230V 4P Pulley 4P Pulley 4P Pulley 4P Pellet 9/8 X 1.1/4 hex head 3/8 x 1.1/2 hex head 3/8 x 1.1/2 hex head 3/8 hex nut	01 01 01 01 01 01 01 01 01 01 01 01 01 0
20	003.0174-4	003.0174-4	1/4 niple	01

^{*} Part available in the market - not sold by Schulz.

TECHNICAL DATA 7.580VL30X



No.	CODE	DENOMINATION	QTY	No.	COD
1	709.1583-0	Cylinder cover	01	25	702.157
2	809.1086-0	1" NPT Air filter	01	26	
3	007.0118-0	Filter element	01	27	709.140
4	830.1090-0/NA	Gasket kit	01	28	*
5	022.0177-0	LP 1/8" ASME safety valve	01	29	*
6	809.1061-0	Valve plate	01	30	709.014
7	830.1114-0	Gasket internal plate kit	01	31	830.109
9	830.1075-0	Valve plate kit	01	32	019.002
10	830.1076-0	Gasket/valve plate kit (kit)	01	33	*
11	003.0005-5	NPT 1/8" x 1/4" elbow	01	34	809.1082
12	830.0599-8	1/4" ring kit	01	35	809,108
13	709.1585-0	Crankcase breather tube	01	36	*
14	003.0054-3	NPT 1/8" x 1/4" straight connection	01	37	830,107
15	709.1576-0	Cylinder	01	38	830.107
16	*	3/8" x 1" Hex. head bolt	06	39	830,109
17	028.0297-0	M18 plug	01	40	016.012
18	709.1574-0	Crankcase	01	41	022.021
19	003.0028-4	1/4" plug	01	42	
20	003.0044-6	1" oil level sight	01	43	830.108
21	019.0007-2	6306 bearing	01	44	*
22	830.1092-0	Crankshaft kit	01	45	709.159
23	019.0074-0	6308 bearing	01	46	003.029
24	60082501	Oil seal	01	47	830.108

No.	CODE	DENOMINATION	QTY
25	702.1577-0	Flange	01
26	* *	5/16" x 1.1/4" Hex. head bolt**	01
27	709.1405-0	Flywheel	01
28		5/16" x 1" Hex. head bolt	03
29		5/16" lock washer	08
30	709.0147-1	Key	01
31	830.1093-0	HP connecting rod with needle bearing kit	01
32	019.0028-0	Needle bearing	01
33		5/16" x 1.3/4 Allen hex. head bolt	04
34	809.1082-C	Guide bushing connecting rod	04
35	809.1083-0	LP connecting rod kit	01
36		1/4" x 5/8" Flat head bolt	02
	830.1079-0	HP Ø 2. 1/2" piston	01
38	830.1078-0	HP 2. 1/2" ring kit	01
39	830.1091-0	LP 120mm ring kit	01
40	016.0121-0	LP Ø 120mm piston	01
41	022.0215-0	HP 1/8" ASME safety valve	01
42		3/8" x 3 Allen hex. head bolt	08
43	830.1083-0	Washer copper kit	01
44		5/16" x 2" Allen hex. head bolt	02
45	709.1592-0	Intercooler kit	01
46	003.0293-0	NPT 3/4" x 3/4" elbow	02
47	830.1084-0	Intercooler holder kit	01

TECHNICAL DATA 360VL15X

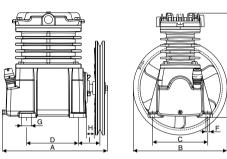
	=	DISPLAC		MAX PR	•	1	ANK	Qı	Ø PUL		BELT SIZE		ELECT	RIC MOTOR	DISCHARGE	OIL C	AP	WEIGHT W	ITH MOTOR	COLOR REF
	MODEL	cfm	l/min	psig	bar	Geom	Volume gal	rpm	2 inches	mm		hp	kW	VOLTAGE [V]	SIZE	Volu	me in qt	lbs	Kg	Black
36	60VL15X	15	425	125	8.6	224	60	1,200	4.2	108	1-A	3	2.2	Single phase 220	1/2"	0.520	0.540	253	115	(pump) Gray (tank)

Compressor dimension (inch/mm)
Height 69 3 / 1,760, lenght 23 5 / 600, width 20 4 / 520

AIR COMPRESSOR PARTS



Note: dimensions in inch/mm.



	Α	В	С	D	Е	F	G	н	ı
mm	285	300	149.5	140.5	282	10	27	21	58.5
inch	11.2	11.8	5.9	5.53	11.1	0.4	1.06	0.83	2.3

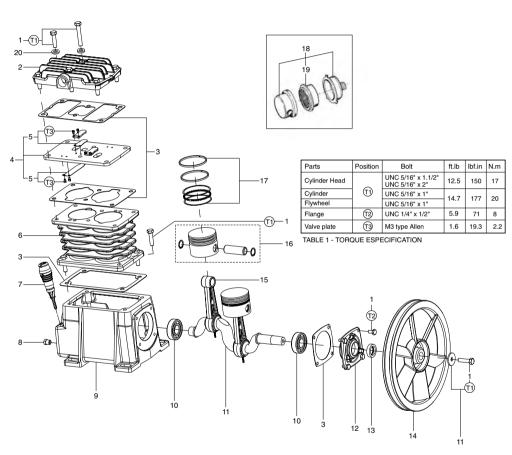
Note: dimensions in inch/mm.

No.	CODE	DENOMINATION	QTY
1	932.3335-0	Bare pump	01
2 3 4 5 6 7	830.1027-0	Belt guard	01
3	709.1433-0	Aftercooller	01
4	003.0254-6	NPT 3/8 x 1/2 elbow	01
5	012.0546-0	Pressure switch	01
6	011.0114-0	Pressure gauge	01
7	709.1664-0	1/4 tube	01
8	003.0005-5	NPT 1/8 x 1/4 elbow	01
9	022.0150-0	Check valve	01
10	022.0183-0	1/4 ASME safety valve	01
11	25003773A	60 gal vertical tank	01
12	022.0206-0	1/4 tank drain valve	01
13	709.1246-0	Hose for tank drain (not shown)	01
14	012.0625-0	Motor start switch cord	01
15	015.0477-0	Motor 220V (single phase)	01
16	012.0834-0	Thermal protector	01
18	709.1123-0	Pulley	01
19	60131019	Belt	01
20	012.0323-0	Strain relief	01
21	*	5/16 x 1.1/4 hex head bolt	04
22	*	5/16 hex nut	08
23		5/16 x 3/4 hex head bolt	04
24	003.0180-9	1/4 plug	02

^{*} Part available in the market - not sold by Schulz.

TECHNICAL DATA 360VL15X

BARE PUMP PARTS



20

No.	CODE	DENOMINATION	QTY
1	830.0970-0	Bolt kit	01
2	709.1315-0	Aluminium cylinder head	01
3	830.0971-0/NA	Gasket kit	01
4	809.1012-0	Valve plate	01
5	830.0972-0	Valve plate kit	01
6	709.1259-0	Cylinder	01
7	809.1100-0	Oil level dipstick	01
8	003.0028-4	1/4" plug	01
9	709.1262-0	Crankase	01
10	019.0002-1	6204 Bearing	02

No.	CODE	DENOMINATION	QTY
11	830.0973-0	Crankshaft	01
12	709.1257-0	Flange	01
13	023.0320-0	Oil seal	01
14	709.1350-0	Flywheel	01
15	709.1261-0	Connecting rod	02
16	016.0116-0	Ø 2.1/2" Piston	02
17	830.0983-0	Ring kit (kit for 1 cylinder)	02
18	007.0156-0	Air filter	01
19	60318003	Filter element	01
20	001.0023-4	5/16" lock washer	06

TECHNICAL DATA 7.580VL30X

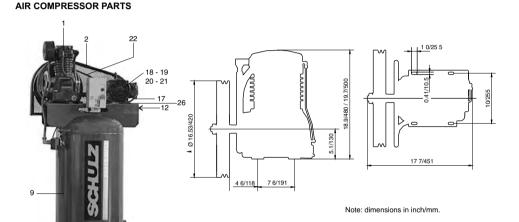
	D SPLAC		MAX PR		1	ANK	Q1'	Q1' © O PULLEY		- 1		Ø PULLEY		BELT SIZE	ELECTRIC MOTOR		DISCHARGE	OIL CAP		WEIGHT WITH MOTOR		COLOR REF																	
MODEL		l/min		١	Geom	Volume		2	P	2P	hp	kW	VOLTAGE [V]	SIZE	Volu	me	lbs	Kg	D																				
	cfm	I/min	psig	bar	- L	gal	rpm	inches	mm	2P	np	KVV	VOLINGE [V]		ml	in qt	IDS	r.g	Black																				
7 500VI 20V	20	050	175	12	300	80	820	4.0	100	2.4	7.5	5.6	Single phase 230	1/2"	1.500	1.580	571	259	(pump) Gray																				
7.580VL30X	30	30 850		30 850		30 850		30 850		30 850		30 850		30 850		30 850		30 850	30 850	30 850	30 850	30 850	1/5	12	300	80	820	4.1	103	2-A	7.5	შ.ნ	Three phase 208/230/460		1,500	1,580	5/1	259	(tank)

Compressor dimension (inch/mm)
Height 78 7/2,000, lenght 33 8/860, width 25 2 / 640

1101g/12 10 172,000; 1011g/12 00 0/000; 1110111 20

4 x 5/8 x 1 1 / 16 x 28 equidistant

90° in the 11 0/280 radius



CODE CODE DENOMINATION QTY single-phase three-phase 932.9309-0 830.1206-0 709.1658-0 Bare pump Belt guard Aftercooller Pressure switch 932.9309-0 830.1206-0 709.1658-0 012.0845-0 011.0114-0 709.1650-0 709.1658-0 012.0845-0 011.0114-0 709.1650-0 Pressure swirch Pressure gauge 1/4 tube Check valve 1/4 ASME safety valve 80 gal vertical tank 1/4 tank drain valve 022.0213-0 022.0162-0 022.0213-0 022.0162-0 25003775A 022.0206-0 25003775A 022.0206-0 709.1246-0 21028503 701.0377-0 709.1246-0 Hose for tank drain (not shown) 21028503 701.0378-0 Motor fastening plate Support start switch ** Start switch** 012.0833-0 012.0831-0 012.0840-0 012.0840-0 Start switch-pressure switch cord** 012.0902-0 015.0583-0 Motor start switch cord** Motor 208/230/460V 012.0901-0 015.0584-0 Motor 230V Pulley 19 20 21 22 23 24 25 26 709.1426-0 709.1660-0 004.0007-6 Pulley 004.0007-6 Belt Strain relief 3/8 x 1.1/4 hex head 3/8 hex nut 012.0323-0 012.0323-0 3/8 x 1.1/2 hex head



^{**} Optional start switch

29

6 23 4 8 5

TECHNICAL DATA 580HV20X

BARE PUMP PARTS Detail of the assembly of HP/LP oil rings Position (1) 4 - 9 (2) 10 (3) 19 (4) 33 (5) 21 - 30 (6) 24 53 4.4 29 348 40.5 16.7 143 1.6 19 2.2 24.5 294 34.2

TABLE 1 - TORQUE ESPECIFICATIONS FOR BOLTS

No.	CODE	DENOMINATION	QTY	No.	CODE	DENOMINATION	QTY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	709.1052-0 023.0265-0 019.0004-8 709.1056-0 019.0005-6 830.0776-0 NA 709.0163-3 830.0778-0 20028001 709.1231-0 003.0028-4 830.0775-0 019.0064-0 830.0786-0 830.0786-0 830.0786-0 830.0781-0	Flywheel (1-A) Oil seal 6206 bearing M6 x 1,25 x 20 hex. head screw Flange 6207 bearing Gasket kit Key Crankshaft M5 x 0,8 x 20 head bolt Labyrinth cover Crankcase 1/4* plug 3/4* oil level sight Needle bearing HP 0.2* piston HP 2* right git M10 x 1,5 x 25 hex. head bolt HP 2* condition	01 01 01 01 01 01 01 01 01 01 01 01 01 0	22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	830.0785-0 709.1332-0 709.1229-0 709.1088-0 016.0042-0 830.0788-0 830.0788-0 830.0788-0 830.0784-0 709.1232-0 709.1232-0 007.0118-0 830.063-0 003.0294-0 03.0005-5 003.0054-3 022.0215-0 022.0177-0	HP 2" valve plate HP 2" valve plate HP 2" cylinder cover M8 x 1,25 x 30 hex, head bolt Intercooler LP 0.90mm piston LP 0.90mm inig kit LP 90mm vilnder LP 90mm vilnder LP valve plate kit LP 90mm vilnder LP 90mm valve plate LP 90mm valve LP 90mm	01 01 01 01 01 01 01 01 01 01 01 01 01 0
21	830.0782-0	HP valve plate kit	01				

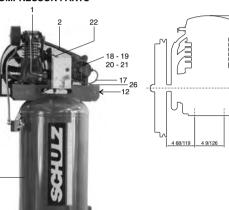
^{*} Part available in the market - not sold by Schulz. Note: HP = high pressure LP = low pressure

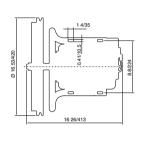
TECHNICAL DATA 580VL20X

				MAX PRESSURE		TANK		1' O PULLEY		BELT SIZE EL		ELECTRIC MOTOR		OIL CAP		WEIGHT WITH MOTOR		COLOR REF
MODEL		l/min			Geom	Volume		2	P		hp kW	VOLTAGE IVI	D SCHARGE SIZE	Volu	me	lbs	V-	. .
	cfm	l/min	ps g	bar	· l	gal	rpm	inches	mm]	IIIP KVV	VOLINGE [V]		ml	in qt	ibs	Kg	Black
580VL20X	20	566	175	12	300	80	985	4.5	115	1-A	5 3.7	Single phase 230	1/2"	1 000	1.060	448	203	(pump) Gray
SOUVLZUX	20	566	1/5	12	300	80	985	4.7	120		3 3.7	Three phase 208/230/460		1,000	1,000	440	203	(tank)

Compressor dimension (inch/mm) Height 78/1,980, lenght 31 5/800, width 25 2 / 640

AIR COMPRESSOR PARTS





Note: dimensions in inch/mm.

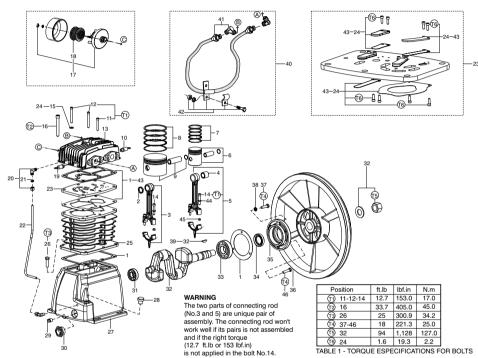
7 10	
4 x 🔾 5/8 x 1 1 / 16 x 28 i	equidistant
90° in the 11 0/280 radius	squidistant
_	15
AT THE REAL PROPERTY.	1
0/ 23.34	14 13
	13
3	
	- 6
1	1
	100
24	
25	
16	
6_7	- 5
23	BAT S
4	II N 8
4	- 7)
8 5	

No.	CODE single-phase	CODE three-phase	DENOMINATION	QTY
1	932.7277-0	932.7277-0	Bare pump	01
2	830.1207-0	830.1207-0	Belt guard	01
3	709.1648-0	709.1648-0	Aftercooller	01
4	012.0845-0	012.0845-0	Pressure switch	01
5	011.0114-0	011.0114-0	Pressure gauge	01
6	709.1650-0	709.1650-0	1/4 tube	01
7	60281012	60281012	Check valve	01
8	022.0162-0	022.0162-0	1/4 ASME safety valve	01
9	25003776A	25003776A	80 gal vertical tank	01
10	022.0206-0	022.0206-0	1/4 tank drain valve	01
11	709.1246-0	709.1246-0	Hose for tank drain (not shown)	01
12	21028503	21028503	Motor fastening plate	02
13	701.0378-0	701.0378-0	Support start switch**	01
14	-	012.0832-0	Start switch**	01
15	012.0830-0	-	Start switch**	01
16	012.0840-0	012.0840-0	Start switch-pressure switch cord**	01
17	-	012.0839-0	Motor start switch cord**	01
18	-	015.0581-0	Motor 208/230/460V	01
19	015.0587-0	-	Motor 230V	01
20	-	709.1662-0	Pulley	01
21	709.1659-0	-	Pulley	01
22	004.0127-0	004.0127-0	Belt	01
23	012.0322-0	012.0322-0	Strain relief	01
24			3/8 x 1 hex head bolt	04
25			3/8 hex nut	04
26			3/8 x 7/8 hex head bolt (fix motor)	04

 $^{^\}star$ Part available in the market - not sold by Schulz. ** Optional start switch

TECHNICAL DATA 580VL20X

BARE PUMP PARTS



No.	CODE	DENOMINATION	QTY	No.	CODE	DENOMINATION	QTY
1	830.1088-0/NA	Gasket kit	01	24	830.1053-0	Valve plate kit	01
2	013.0820-0	Spacer bushing	02	25	709.1569-0	Cylinder	01
3	809.1074-0	LP connecting rod kit	01	26		3/8" x 1" hex. head bolt	06
4	019.0064-0	Needle bearing	01	27	709.1567-0	Crankcase	01
5	830.1086-0	HP connecting rod with needle bearing kit	01	28	028.0297-0	M18 plug	01
6	830.0786-0	HP Ø 2" piston	01	29	003.0028-4	1/4" plug	01
7	830.0823-0	HP 2" ring kit	01	30	003.0044-6	1" oil level sight	01
8	830.0780-0	LP 90mm ring kit	01	31	019.0002-1	6204 bearing	01
9	016.0042-0	LP Ø 90mm piston	01	32	830.1087-0		01
10	022.0189-0	HP 1/8" ASME safety valve	01	33	019.0007-2	6306 bearing	01
11		1/4" x 1.3/4" Allen hex. head bolt	01	34	023.0338-0		01
12		1/4" x 2.1/4" Allen hex. head bolt	01	35	709.1334-0		01
13	709.1449-0	Aluminun cylinder cover	01	36	709.1062-0	Flywheel	01
14		1/4" x 1.1/2" Allen hex. head bolt	04	37		5/16" x 1 hex. head bolt	02
15	830.1032-0	Washer copper kit	01	38		5/16" lock washer	03
16		3/8" x 3" Allen hex. head bolt	06	39	709.0163-3	Key	01
17	809.1085-0	3/4" NPT Air filter	01	40	709.1581-0		01
18	007.0118-0	Filter element	01	41	003.0294-0		02
19	022.0177-0	LP 1/8" ASME safety valve	01	42	830.1063-0		01
20	003.0005-5	NPT 1/8" x 1/4" elbow	02	43	830.1055-0	Gasket/valve plate kit (kit)	01
21	830.0599-8	1/4" ring kit	01	44		1/4" Lock washer	04
22	709.1419-0	Crankcase breather tube	01	45	809.1074-C		04
23	809.1059-0	Valve plate	01	46		5/16" x 1. 1/4" Hex. head bolt **	01

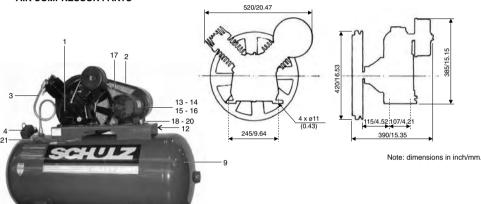
TECHNICAL DATA 580HV20X

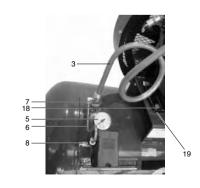
	<u> </u>	D SPLAC	1	MAX PR	•	(TANK			D PULLEY BELT				DISCHARGE	DISCHARGE OIL CAP				COLOR REF	
	MODEL	cfm	l/min	psig	bar	Geom	Volume	rpm	inches	mm	SIZE	hp	kW	VOLTAGE [V]	SIZE	Volu	ne	lbs	Kg	Dissi
		Cim	vmin	psig	bar	l	gal	rpm	inches	mm		np	KW	VOLIAGE [V]		ml	in qt	ibs	- Ng	Black
Γ	580HV20X	20	566	175	12	300	80	1050	8.5	216	1-A	5	3.75	Sing e phase 230	1/2"	1.000	1.060	463	210	(pump) Gray
	360HV2UX	20	300	173	12	300	00	1030	4.8	124	1-4	3	3.73	Three phase 208/230/460	1//2	1,000	1,000	403	210	(tank)

Compressor dimension (inch/mm)

Height 42 7/1,085, lenght 55/1,400, width 25 2 / 640

AIR COMPRESSOR PARTS





4 x Ø 5/8 x 27 5 / 700 x 18 9

No.	CODE single-phase	CODE three-phase	DENOMINATION	QTY
1	_		Bare pump	01
2	830.1223-0	830.1218-0	Belt guard	01
	709.1116-0	709.1116-0	Aftercooller	01
4	012.0845-0	012.0845-0	Pressure switch	01
5	011.0114-0	011.0114-0	Pressure gauge	01
6	709.1680-0	709.1680-0	1/4 tube	01
7	60281011	60281011	Check valve	01
8	022.0162-0	022.0162-0	1/4 ASME safety valve	01
9	25003838A	25003838A	80 gal horizontal tank	01
10	022.0206-0	022.0206-0	1/4 tank drain valve	01
11	709.1246-0	709.1246-0	Hose for tank drain (not shown)	01
12	21028503	21028503	Motor fastening plate	02
13	-	015.0581-0	Motor 208/230/460V 2P	01
14	015.0587-0	015.0615-0	Motor 230V 4P	01
15	20014041	709.1662-0	Pulley	01
16	709.1659-0	709.1168-0	Pulley	01
17	004.0129-0	004.0127-0	Belt	01
18		-	3/8 x 1.1/4 hex head bolt (see note)	08
19		. *	3/8 hex nut	04
20	-	٠ .	3/8 x 7/8 hex head bolt	04
21	003.0174-4	003.0174-4	1/4 niple	01

Note: For model with motor three-phase assembled 4 bolts.

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^{*} Part available in the market - not sold by Schulz.

TECHNICAL DATA 580VV20X

BARE PUMP PARTS Detail of the assembly of HP/LP oil rings (1) 4 - 9 (2) 10 (3) 19 (4) 33 (5) 21 - 30 (6) 24 4.4 53 29 348 40.5 143 16.7 1.6 19 2.2 24.5 294 34.2

TABLE 1 - TORQUE ESPECIFICATIONS FOR BOLTS

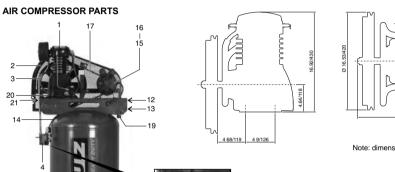
No.	CODE	DENOMINATION	QTY	No.	CODE	DENOMINATION	QTY
1	709.1062-0	Flywheel (1-A)	01	22	830.0785-0	HP 2" valve plate	01
2	023.0265-0	Oil seal	01	23	709.1332-0	HP 2" cylinder cover	01
3	019.0004-8	6206 bearing	01	24	***	M8 x 1,25 x 30 hex. head bolt	10
4	*	M8 x 1.25 x 20 hex, head screw	06	25	709.1229-0	Intercooler	01
5	709.1056-0	Flange	01	26	709.1068-0	LP connecting rod	01
6	019.0005-6	6207 bearing	01	27	016.0042-0	LP Ø 90mm piston	01
7	830.0776-0/NA	Gasket kit	01	28	830.0780-0	LP 90mm ring kit	01
8	709.0163-3	Key	01	29 30	709.1058-0	LP 90mm cylinder	01 01
9	830.0778-0	Crankshaft	01	31	830.0779-0 830.0784-0	LP valve pláte kit LP 90mm valve plate	01
10		M5 x 0,8 x 20 head bolt	01	32	709.1232-0	LP 90mm cylinder cover	01
11	20028001	Labyrinth cover	01	33	103.1232-0	M6 x 1,0 x 45 Allen hex. head bolt	01
12	709.1231-0	Crankcase	01	34	809.1085-0	Air filter	01
13	003.0028-4	1/4" plug	02	35	007.0118-0	Filter element	01
14	830.0775-0	3/4" oil level sight	01	36	830.0603-0	5/8" ring kit	01
15	019.0064-0	Needle bearing	01	37	003.0294-0	NPT 1/2" x 5/8" elbow	02
16	830.0783-0	HP connecting rod with needle bearing	01	38	830.0340-5	Crankcase breather tube kit	01
17	830.0786-0	HP Ø 2" piston	01	39	003.0005-5	NPT 1/8"x1/4" elbow	01
18	830.0781-0	HP 2" ring kit	01	40	003.0054-3	1/8"x1/4" straight connection	01
19		M10 x 1,5 x 25 hex. head bolt	80	41	022.0215-0	HP 1/8" ASME safety valve	01
20	709.1057-0	HP 2" cylinder	01	42	022.0177-0	LP 1/8" ASME safety valve	01
21	830.0782-0	HP valve plate kit	01				

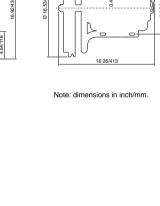
26

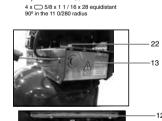
TECHNICAL DATA 580VL20X - NS

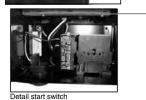
=			MAX PRESSURE		TANK		Qı			BELT SIZE		ELECT	RIC MOTOR	DISCHARGE	OIL CAP		WEIGHT WITH MOTOR		COLOR REF
MODEL	cfm	l/min	psig	bar	Geom	Volume gal	rpm	inches	mm	2P	hp	kW	VOLTAGE [V]	SIZE	Volume ml in qt	lbs	Kg	Black	
580VL20X-NS	20	566	175	12	300	80	985	4.5	115	1-A	5	3.75	Sing e phase 230	1/2"	1,000	1,060	448	203	(pump) Gray (tank)

Compressor dimension (inch/mm)
Height 78/1,980, lenght 31 5/800, width 25 2 / 640









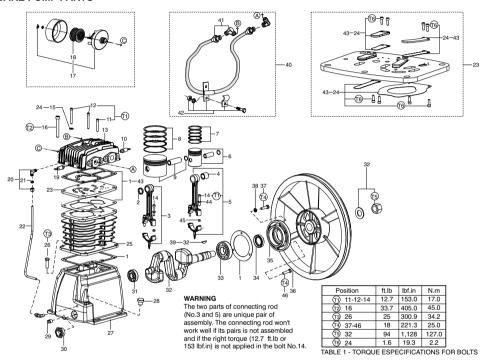
No.	CODE	DENOMINATION							
1	932.7277-0	Bare pump	01						
2	830.1207-0	Belt guard	01						
3	709.1648-0	Aftercooller	01						
4	012.0845-0	Pressure switch	01						
5	011.0114-0	Pressure gauge	01						
6	709.1650-0	1/4 tube	01						
7	60281012	Check valve	01						
8	022.0162-0	1/4 ASME safety valve	01						
9	25003776A	80 gal vertical tank	01						
10	022.0206-0	1/4 tank drain valve	01						
11	709.1246-0	Hose for tank drain (not shown)	01						
12	21028503	Motor fastening plate	02						
13	012.0936-0	Start switch	01						
14	012.0840-0	Start switch-pressure switch cord	01						
15	015.0587-0	Motor 230V (single phase)	01						
16	709.1659-0	Pulley	01						
17	004.0127-0	Belt	01						
18	012.0322-0	Strain relief	02						
19	012.0723-0	Strain relief	01						
20		3/8 x 1. hex head bolt	04						
21	*	3/8 hex nut	04						
22		3/8 x 7/8 hex head bolt (fix motor)	04						

^{*} Part available in the market - not sold by Schulz.

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

TECHNICAL DATA 580VL20X - NS

BARE PUMP PARTS



No.	CODE	DENOMINATION	QTY	No.	CODE	DENOMINATION	QTY
1	830.1088-0/NA	Gasket kit	01	24	830.1053-0	Valve plate kit	01
2	013.0820-0	Spacer bushing	02	25	709.1569-0		01
3	809.1074-0	LP connecting rod kit	01	l 26		3/8" x 1" hex, head bolt	06
4	019.0064-0	Needle bearing	01	27	709.1567-0	Crankcase	01
5	830.1086-0	HP connecting rod with needle bearing kit	01	28	028.0297-0	M18 plug	01
6	830.0786-0	HP Ø 2" piston	01	29	003.0028-4	1/4" plug	01
7	830.0823-0	HP 2" ring kit	01	30	003.0044-6	1" oil level sight	01
8	830.0780-0	LP 90mm ring kit	01	31	019.0002-1	6204 bearing	01
9	016.0042-0	LP Ø 90mm piston	01	32	830.1087-0	Crankshaft kit	01
10	022.0189-0	HP 1/8" ASME safety valve	01	33	019.0007-2	6306 bearing	01
11	*	1/4" x 1.3/4" Allen hex. head bolt	01	34	023.0338-0	Oil seal	01
12		1/4" x 2.1/4" Allen hex. head bolt	01	35	709.1334-0	Flange	01
13	709.1449-0	Aluminun cylinder cover	01	36	709.1062-0		01
14	*	1/4" x 1.1/2" Allen hex. head bolt	04	37		5/16" x 1 hex. head bolt	02
15	830.1032-0	Washer copper kit	01	38		5/16" lock washer	03
16		3/8" x 3" Allen hex. head bolt	06	39	709.0163-3		01
17	809.1085-0	3/4" NPT Air filter	01	40	709.1581-0		01
18	007.0118-0	Filter element	01	41	003.0294-0		02
19		LP 1/8" ASME safety valve	01	42	830.1063-0		01
20	003.0005-5	NPT 1/8" x 1/4" elbów	02	43	830.1055-0		01
21	830.0599-8	1/4" ring kit	01	44		1/4" Lock washer	04
22	709.1419-0	Crankcase breather tube	01	45	809.1074-C		04
23	809.1059-0	Valve plate	01	46		5/16" x 1. 1/4" Hex. head bolt **	01

Note: HP = high pressure LP = low pressure * Part available in the market - not sold by Schulz. ** Assembled of the intercooler holder (item 42).

TECHNICAL DATA 580VV20X

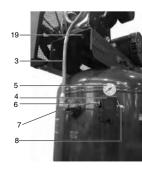
			MAX PRESSURE		TANK		Qı	⊚ Ø PULLEY		© BELT	ELECTRIC MOTOR			DISCHARGE	OIL CAP		WE GHT WITH MOTOR		COLOR REF
MODEL	cfm	l/min	psig	bar	Geom Volume		rpm	inches	mm	SIZE	hp kW	kW	VOLTAGE [V]	SIZE	Vo ume		16-2	lbs Kg	Dissi
	cim		psig		l l	gal	i i piii	Ilicites			1111	,	VOLINGE [V]		ml	in qt	IDS	- Ng	Black
580VV20X	20	566	175	12	300	80	1050	8.5	216	1-A	5	3.75	Single phase 230	1/2"	1.000	1.060	453	205	(pump) Gray
3000020X	20	300	1/3	3 12	300	00	1030	4.8	4.8 124	1-A			Three phase 208/230/460		1,000 1,000		455	205	(tank)

Compressor dimension (inch/mm)

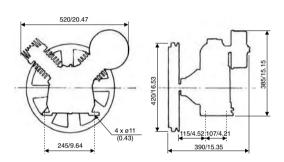
Height 74 8/1,900, lenght 31 5/800, width 25 2 / 640

AIR COMPRESSOR PARTS





4 x 5/8 x 1 1 / 16 x 28 equidistant 90° in the 11 0/280 radius



Note: dimensions in inch/mm.

No.	CODE single-phase	CODE three-phase	DENOMINATION	QTY
1	-	-	Bare pump	01
2	830.1223-0	830.1218-0	Belt guard	01
3	709.1647-0	709.1647-0	Aftercooller	01
4	012.0845-0	012.0845-0	Pressure switch	01
5	011.0114-0	011.0114-0	Pressure gauge	01
6	709.1650-0	709.1650-0	1/4 tube	01
7	60281012	60281012	Check valve	01
8	022.0162-0	022.0162-0	1/4 ASME safety valve	01
9	25003776A	25003776A	80 gal vertical tank	01
10	022.0206-0	022.0206-0	1/4 tank drain valve	01
11	709.1246-0	709.1246-0	Hose for tank drain (not shown)	01
12	21028503	21028503	Motor fastening plate	02
13	-	015.0581-0	Motor 208/230/460V 2P	01
14	015.0615-0	-	Motor 230V 4P	01
15	-	709.1662-0	Pulley 4P	01
16	709.1168-0	20014041	Pulley 2P	01
17	004.0129-0	004.0127-0	Belt	01
18		*	3/8 x 1.1/4 hex head bolt (see note)	08
19		*	3/8 hex nut	04
20	•	*	3/8 x 7/8 hex head bolt	04

Note: For model with motor three-phase assembled 4 bolts.

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^{*} Part available in the market - not sold by Schulz.