

G20 (T) (TD),
G25 (T) (TD) &
G30 (T) (TD)
Rotary Screw
Air Compressor
Units
--Installation
And
Start-up Data

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Common Compressor Faults  Variable Speed Drive  Separator Filter & Refrigerated Air Dryer  Trouble-Shooting Guide	17 18 21 . 24



Please read this manual before installing or using your Air Compressor Unit. It contains valuable information that will help in the receiving, installation, use, and maintenance of the Unit.

<u>Please keep this manual in a</u> safe place for future reference.

All of the information, policies, and procedures in this reference manual apply exclusively to DV Systems.

If you require assistance, please contact your local DV Systems Distributor or Authorized Service center. You may contact the manufacturer directly as follows:

Phone: (705) 728-5657 (Canada) Web: www.dvcompressors.com

(704) 799-0046 (USA)

Fax: (705) 728-4974 (Canada) Email: sales@dvcompressors.com (Canada)

(704) 799-0355 (USA)

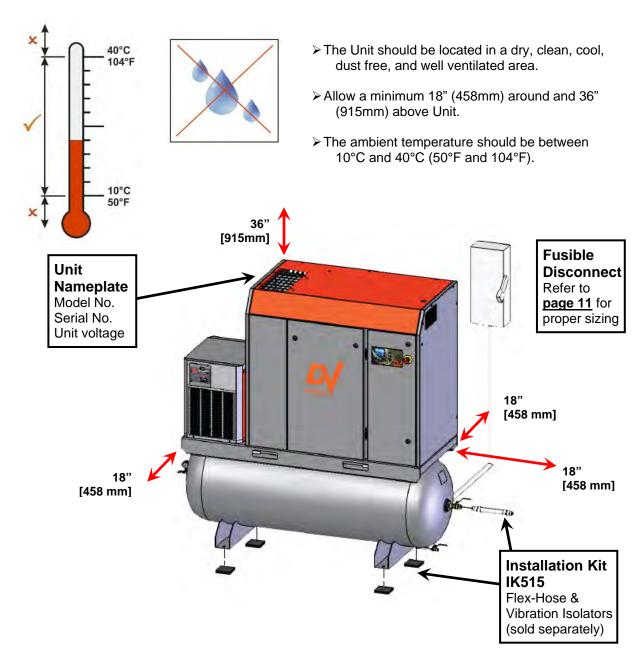
orders@dvcompressors.com (USA)



# **Quick Start**

### **Mechanical Installation.**

(Refer to Page 6)



- ➤ Ensure that the floor under the Unit is smooth, level and capable of bearing the weight of the Compressor.
- ➤ If installed in a compressor room, ensure that the room is adequately ventilated

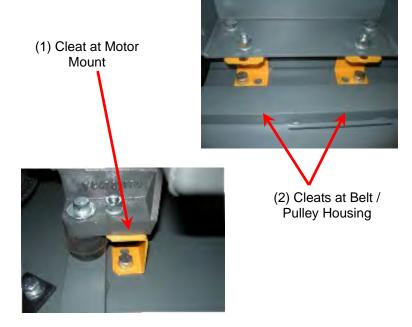
**Note:** Dimensions indicated are typical for all variations of 'G Series' Units, ie base mounted and horizontal.



# **Quick Start (cont'd)**

# **Shipping Cleats.**

- ➤ The 'G Series' Screw Units are shipped with (3) Shipping Cleats that must be removed prior to operating the Unit.
- > (2) Cleats are located under the Belt / Pulley Housing as shown at right.
- ➤ (1) Cleat is located under the Motor Mount as shown at right.



### Lubrication.

(Refer to Page 10)

- ➤ Ensure the oil level in the Air End is to the level as shown while at rest.
- ➤ The Unit is equipped with the Sight Glass
- ➤ The oil level should be close to the center of the Oil Sight Glass, while at rest.
- Check the oil after the Unit has been at rest for a minimum of 5 minutes.





Rotation.

- ➤ Units are equipped with Advanced Phase Detection feature which prevents Units from rotating in the reversed direction.
- ➤ An 'E:0090 Phase Sequence' Error will appear on the Controller Screen if the phase sequence is incorrect. If this occurs, simply switch the incoming leads 'L1' and 'L3' at the Control Panel

**Note:** Units with serial number 077690 and earlier may be equipped with Anti-Rotation Switches.

'E:0902 Anti Rotation' will appear on the Controller Screen if the rotation is incorrect. If this occurs, change 'L1' and 'L3' at the Control Panel.



# **Quick Start (cont'd)**

### **Unit Operation.**

Shown below is the 'CSC300' Controller which regulates the operation of the Unit. It is used to start and stop the Unit, and it provides information as to system pressure, temperature, etc.

Starting the Unit: Press the 'Start' Button.

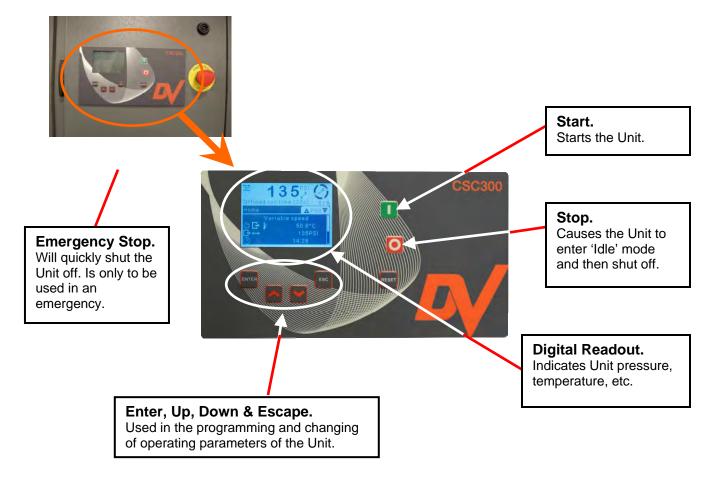
Stopping the Unit: Press the 'Stop' Button

### Note:

- 1. Do not stop the Unit using the 'Emergency Stop' Button unless there is a danger to the product or of personnel injury.
- 2. Do not stop the Unit by use of a disconnect or breaker.



Using the Emergency Stop Button, disconnect, or breaker to stop the Unit will not allow the Unit to go through an unloading sequence, and could result in damage to the Motor, Starter, or other electrical components. Damage caused in this manner is not covered by the manufacturers Warranty.





# **Safety Precautions**

In order to operate the Compressor Unit safely and correctly, we have opted to use the following symbols to make you aware of important points. These points relate to user safety and preventing equipment problems. Please pay close attention to these sections.



Important safety Information. A hazard that may cause serious injury or loss of life.



Important information that indicates how to prevent damage to equipment, or how to avoid a situation that may cause minor injury.



Information that you should pay special attention to.



The following hazards may occur during the normal use of the equipment. Please read the following chart.

Area:	Hazard:	Safeguards:
What to look for.	What may occur if precautions are not observed.	How to avoid the hazard.
	Tampering with the Unit while under full or partial pressure may cause an explosion.	Relieve all pressure from the Unit before attempting any repair or maintenance work.
74	As the Unit starts and stops automatically, serious injury may result from working on the Compressor with the power still in the 'on' position.	Shut off all power to the Unit before attempting to repair or maintain the Compressor.
96	As the Unit starts and stops automatically, do not come into contact with moving parts.	Shut off all power to the Unit before attempting to repair or maintain the Compressor.
	Air compressed by the Unit is not suitable for inhaling. It may contain vapours harmful to your health.	Never breath untreated compressed air produced by the Compressor.
300	Compressor Air End, Motor, and Tubing become hot when running. Touching these areas may cause serious burns.	Never touch the Air End, Motor, or Tubing during or immediately after operation.
20FT	As the electrical components on the Compressor are General Purpose, there is a potential for explosion, should vapours be present in the area.	Do not install in hazardous locations.  The Compressor must be a minimum of 20 feet (6.1 meters) from any source of potentially explosive vapours.



# **Unpacking and Inspection**



Each DV Systems Air Compressor is carefully tested and inspected before shipment. Though every attempt is made to ensure the safe and complete shipment of our product, freight damage or misplacement of goods may occur.

Shipments of DV Systems products are the property of the Consignee when the products leave our facility. DV Systems Inc. is not responsible for any damages or shortages caused to the product after it has left our shipping dock.

It is the responsibility of the receiver of the goods, either the Distributor or Customer, to ensure that the product has been shipped in full, and has arrived in suitable condition. Damage to the product may not be visible at time of off-loading, but may only become apparent upon unpacking or start-up.

### Some areas to initially check are as follows:

- a) Check for damage to the crating and/or packaging.
- b) Check the exterior of the Cabinet for damage, either cosmetic or mechanical.
- c) If there is mechanical damage, open the Cabinet to determine whether there is any internal damage to the Unit.

### Should there be damage to the product or shortages in shipment:

- 1) Stop any further unpacking or operation of the product.
- 2) Make note of the problem on the Freight Bill, should it concern a shortage or visible damage to the product.
- 3) Should the damage be noticed only after the product has been received, contact the transport company immediately to file a claim.
  - Depending on the problem, it may be wise to photograph the damage. Also, it may be wise to discuss with the carrier representative the time allotted to give notice of loss or damage to the product; there may be guidelines which limit timeframes of same.
- 4) Do not attempt further unpacking or operation of the product. Also, do not discard any packing material used.
- 5) A Loss or Damage Claim must be submitted to the carrier and supported by the following documents:
  - Copy of Freight Bill of Lading
  - Copy of the Invoice and Estimate to repair, in case of damage
  - Damage Report
  - Copy of photos, if applicable



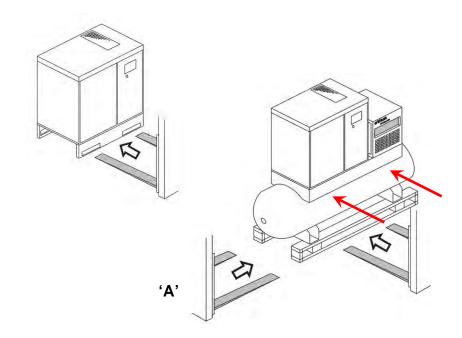
# **Installation – Mechanical**

## Moving of the Unit.

When moving the Air Compressor, the forklift or hand lift forks go under the Unit from the directions as indicated.

When lifting from position 'A', use extended forks.

Please be advised that care must be taken when moving and positioning the Units as they are top heavy.



### Location of the Unit.

Items to consider when installing the Unit are as follows:

- ➤ The Unit should be located in a dry, clean, cool, dust free, and well ventilated area. If possible, the Compressor should be located in a separate room or area, away from the general operations of the shop.
- ➤ Allow a minimum of 18" (458mm) around and 3 feet (915mm) above the Unit for easy access to the various sides, this being for both the proper ventilation of the Unit and ease of servicing.
- ➤ Ensure that the floor under the Unit is smooth, level and capable of bearing the weight of the Compressor. The Compressor must sit squarely on the floor.
- ➤ If installed in a compressor room, ensure that the room is adequately ventilated. (One Horsepower produces approximately 2500 BTU/HR.) See Pages 8 and 9.
- ➤ The ambient temperature should be between 50°F and 104°F (10°C to 40°C).

➤ If installing the Unit on a mezzanine, ensure that the structure can safely support the weight of the Unit. As well, the sound level of the Unit may increase due to the harmonics created by the structure; use Vibration Pads to lessen this.

Many common Compressor problems can be attributed to the location or installation of the Unit. Make sure the Unit is in a suitable location, and installed correctly.



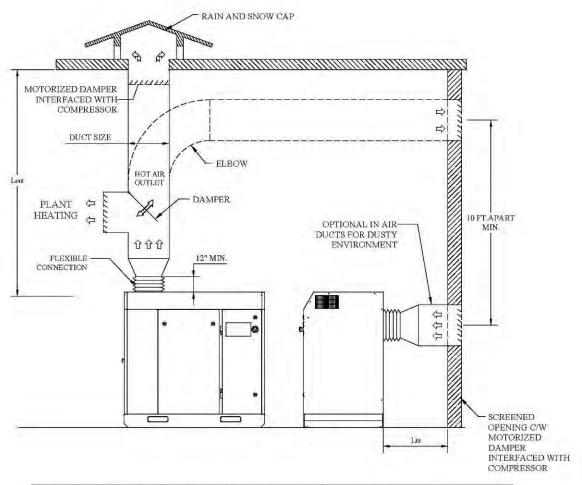
The Compressor must not be operated in a confined area where the heat from the Unit cannot readily escape.



# Installation - Mechanical (cont'd)

Shown below and on the following page are items which assist in making a good installation. These are both intake and exhaust ductwork, helping the Unit to a) draw in clean outside air and b) exhaust the warmer air away from the Unit. The warmer air may be used, with the inclusion of a damper in the exhaust ducting, to warm the interior of the building during the colder months of the year.

### Intake and Exhaust Ducting - Base Mounted Unit



MODEL	HP	HEAT LOAD (BTU/HOUR)	COOLING AIR (CFM)	RECOMMEND MIN. DUCT SIZE	MAX. DUCT LENGTH Lin + Lout	AIR OUT OPENING AT COMPRESSOR
G20	20	50,928	1520	Ø 16" (CIRL.) 16" x 16" (RECT.)		OUTLET SIZE
G25	25	63,660	1830	Ø 16" (CIRL.) 16" x 16" (RECT.)	70 Ft. (0 ELBOW) 45 Ft. (1 ELBOW) 20 Ft. (2 ELBOW)	7 11/16" x 16 5/16" INLET SIZE
G30	30	76,392	1830	Ø 16" (CIRL.) 16" x 16" (RECT.)		11 5/8" x 14 1/4"

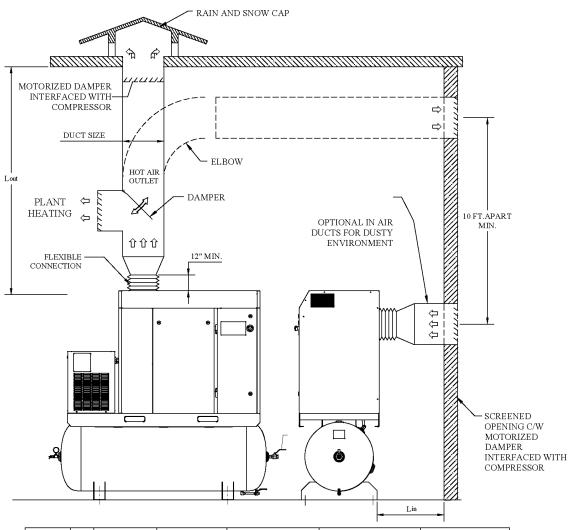
### NOTE:

- 1. DUCTING SIZE BASED ON GALVANIZED STEEL DUCTS.
- 2. MAXIMUM PRESSURE DROP DUE TO DUCTING SYSTEM SHOULD BE WITHIN 0.1 IN. OF WATER.
- 3. ADDITIONAL VENTILATION SYSTEM NEEDED FOR PRESSURE DROP EXCEED ABOVE LIMIT.
- 4. OPERATION TEMPERATURE: MIN. 10°C (50°F) ~ MAX. 40°C (104°F).
- 5. ANY DEVIATION FROM ABOVE INSTALLATION, CONSULT DEVAIR TECHNICAL SUPPORT.



# Installation - Mechanical (cont'd)

### Intake and Exhaust Ducting - Tank Mounted Unit



MODEL	HP	HEAT LOAD (BTU/HOUR)	COOLING AIR (CFM)	RECOMMEND MIN. DUCT SIZE	MAX. DUCT LENGTH Lin+Lout	AIR OUT OPENING AT COMPRESSOR
G20TD	20	50,928	1520	Ø 16" (CIRL.) 16" x 16" (RECT.)		OUTLET SIZE
G25TD	25	63,660	1830	Ø 16" (CIRL.) 16" x 16" (RECT.)	70 Ft. (0 ELBOW) 45 Ft. (1 ELBOW) 20 Ft. (2 ELBOW)	7 11/16" x 16 5/16"  INLET SIZE
G30TD	30	76,392	1830	Ø 16" (CIRL.) 16" x 16" (RECT.)		11 5/8" x 14 1/4"

- 1. DUCTING SIZE BASED ON GALVANIZED STEEL DUCTS.
- 2. MAXIMUM PRESSURE DROP DUE TO DUCTING SYSTEM SHOULD BE WITHIN 0.1 IN. OF WATER.
- 3. ADDITIONAL VENTILATION SYSTEM NEEDED FOR PRESSURE DROP EXCEED ABOVE LIMIT.
- 4. OPERATION TEMPERATURE: MIN.  $10^{\circ}$ C ( $50^{\circ}$ F) ~ MAX.  $40^{\circ}$ C ( $104^{\circ}$ F). 5. ANY DEVIATION FROM ABOVE INSTALLATION, CONSULT DEVAIR TECHNICAL SUPPORT.



# Lubrication

### Initial Start-up.

Each Compressor Unit built is extensively tested at the factory before shipment. The Unit is shipped with the original oil in it as used for testing purposes.

Check the Oil level and for any Oil leaks on a daily basis. This must be done when the Unit is off. Top up the Oil level on a monthly basis.

Use only DV Systems '**DEV-3000**' Synthetic Oil. Also, do not mix the 'DEV-3000' with any other lubricant.

### Subsequent Oil Changes.

Drain the existing oil from the Unit. (Please be advised that the Unit cannot be drained fully of oil, as some oil may remain in various components ie Cooler, Tubing, etc.)

Fill the Oil Reservoir to the Metal Band on the External Oil Level Gauge as shown below. Do not under or overfill. See drawing below.

Use only DV Systems '**DEV-3000**' Synthetic Oil, available in both 1 US gallon (3.8 litre) jugs or 5 US gallon (5 x 3.8 litre) pails. Any remaining oil may be used for 'top-ups'.'

The 'MK-G20-30-1' Maintenance Kit includes:

- (1) 5 US Gallon Oil ('DEV-3000')
- (2) Oil Filter ('DSC-624')
- (1) Air/Oil Separator Filter ('DSC-001148')
- (2) Air Filter ('DSC-001961')
- (1) In Line Filter ('DSC-612)

The 'MK-G20-30-1' Kit is appropriate for Units of serial number '37162' and higher. Use 'MK-G20-30' Kit for Units of serial number '37135' and lower.



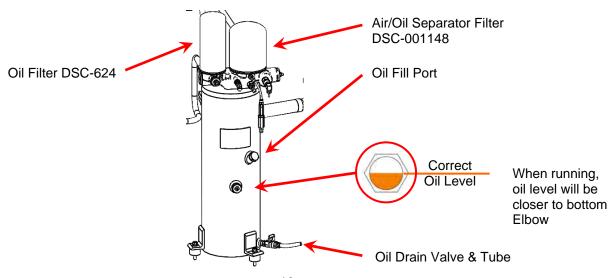
Do not attempt to operate the Unit without first checking whether there is oil in the Oil Reservoir. Add oil as required. Serious damage may result from use, however limited, without oil.



Use of improper oil may negatively affect Compressor performance or shorten Unit life. Resulting problems are not covered by the DV Systems Inc. Air Compressor Warranty.



Condensation (water) may form in the Oil Reservoir with the oil. If this occurs, as the water will tend to settle on the bottom of the Reservoir, drain the water from the Reservoir until you notice oil draining. Top up the Reservoir with new oil using only the DV Systems 'DEV-3000' oil.





# **Installation - Electrical**

### **General Information.**

It is your responsibility to ensure that the Compressor Unit is electrically connected in a safe and correct manner. Any electrical work should be carried out by a competent Electrician, and be done in such a way that it meets all applicable Codes and Regulations.

Ensure that a suitable Fused Disconnect or Breaker (by others than DV Systems) is installed in the electrical supply before the Compressor Unit.

The sales drawing found at the back of this booklet indicates the amp rating for the Unit. This information is required in sizing a Disconnect, Fuses, and/or a suitable Breaker. As well, an electrical schematic is enclosed for reference.

Electrical wiring and conduit from the building supply, through the Compressor Cabinet, and to the Switch in the Compressor Control Panel, must be rated for 110°C (230°F) or higher.



- Failure to correctly connect the Compressor to your building's electrical services may result in serious personal injury or damage to the equipment.
- > Install all covers and panels before applying power to the Unit.
- Before servicing the Unit, ensure the power source has been shut down and locked off.
- Read and understand the information contained in this manual before installing or operating the Unit.

Failure to observe any of the above precautions could result in severe personal injury or death, and/or damage to the Unit.

# Fusible Disconnects.

- > Ensure that all wiring, fusing, etc is done in a manner that meets with the appropriate codes and regulations.
- > See the sales drawings and electrical schematic contained in this manual for information about Motor nameplate amps, this is used to determine the appropriate Disconnect / Breaker and Wiring sizes.
- Units equipped with Variable Speed Drives (VSDs) MUST use FAST-ACTING FUSES. Refer to the table below for fuse sizes.

### Fixed Speed Units:

Use TIME-DELAY type fuse.

Max. Allowable Fuse = 1.75 x Motor Full Load Amp

### **VSD Units:**

HP	Voltage	Fuse	Fuse	DV	DV Disconnect
		Туре	Amp	Fuse	Kit (Disconnect +
				Part	Fuses)
				No.	
	200		80	F080	FD-080
25	230	DFJ/	70	F070	FD-070
	460	HSJ	35	F035	FD-035
	575		35	F035	FD-035
	200		110	F110	FD-110
30	230	DFJ/	80	F080	FD-080
	460	HSJ	40	F040	FD-040
	575		35	F035	FD-035



# Installation - Electrical (cont'd)

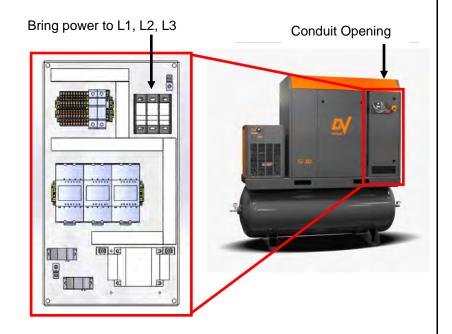


Do not attempt to operate the Unit without first checking whether there is oil in the Oil Reservoir. Add oil as required. Serious damage may result from use, however limited, without oil.

### **Electrical Connection.**

The Electrician is to bring power to the Unit through the conduit hole located on the Top Panel. The Electrical Panel is accessible by means of opening the Unit Front RH Door as shown at right.

Refer to the enclosed sales drawing and electrical schematic in determining the correct Disconnect / Breaker and Wire size.



### Motors.

Wiring must be done in a manner that the full Motor nameplate voltage +/- 10% is available at the Motor terminals during start-up. Contact your local Distributor or Service Centre if additional information is needed.

The Warranty that exists on the Electric Motor is that of the original manufacturer. In the event of a Motor failure, contact your DV Systems Distributor or Service Centre for the location of the nearest authorized Motor Service Centre.

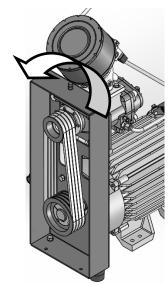
### Motor/Air End Rotation.

It is critical that the Motor and Air End in the Rotary Screw Unit be turning in the correct manner. Irreparable damage will be done if the Unit rotates in the opposite direction.

This unit is equipped with Advanced Phase Detection which prevents unit from rotating in the reverse direction. If the following error is visible on the Screen and the Unit will not start, simply switch power leads L1 and L3. Press the 'Reset' key on the Controller to reset the error message.

E:0090 Phase Sequence

Note: If the Motor is replaced or Motor Leads are re-wired, visually check for correct Motor Rotation before installing the belts.





# **AC Motor Maintenance Instructions**



### Cleaning.

To ensure that the Motor operates at optimum temperatures and provides years of trouble-free service, periodically clean the outside of the Motor Housing of any build-up of dust, etc. Though it is not anticipated that, if installed correctly and in a suitable environment, there should be much build-up on the Motor, keeping the Housing clean will allow the Motor to operate more efficiently.

### Lubrication.

This is a ball bearing motor. The bearings have been lubricated at the factory. Motors that do not have re-grease capability are factory lubricated for the normal life of the bearings.

Some motor designs use different bearings on each motor end. Noted below is a chart outlining the interval at which the bearings of Motor should be lubricated, this based on the Bearing Sizes. This must be part of a regular maintenance schedule.

		Drive	Opposite Drive End **					
Motor HP	Interval in Hours	Weight of Grease	Volume of Grease	Weight of Grease				
iii nouis		Ounces (Grams)	In <sup>3</sup> (Teaspoon)	Ounces (Grams)				
20 / 25 /30	2,000	0.61 (17)	1.2 (3.9)	0.23 (7.2)				

<sup>\*</sup>Drive End would be the end that is connected to the driven device (air end).

The above chart is based on a standard environment in which the Motor is operating of 40°C (104°F). For other conditions, please multiply the Hour Interval from the chart above by the factor as indicated below.

Severity of Duty	Factor	Environmental Conditions
Standard	1.0	40°C (104°F), clean, little corrosion
Severe	0.5	50°C (122°F), moderate dirt, corrosion
Extreme	0.1	> 50°C (122°F), severe dirt, abrasive dust
Low Temperature	1.0	< 30°C (86°F)

### Lubricant.

Baldor motors are pre-greased, normally with Mobil Polyrex EM. Equivalent and compatible greases are Texaco Polystar, Chevron SRI #2, and Shell Dolium BRB.

<sup>\*\*</sup>Opposite Drive End would be the end that is connected to the fan assembly.



# **Start-up Procedures**



Do not attempt to operate the Unit without first checking whether there is oil in the Oil Reservoir. Add oil as required. Serious damage may result from use, however limited, without oil.

### **Unit Controls**

# **Start Button**Allows the Unit to



Stop Button
Use this to shut
the Unit off. Allows
the Unit to idle and
then stop after
several seconds.

### **Emergency Stop Button**

Do not use to normally stop the Unit. <u>To be used to stop the Unit in emergencies only.</u> Normal use will damage electrical controls and Shaft Seal.

# Initial Start-up

- Remove the LH Front Access Panel, and ensure that there is sufficient Oil in the Oil Reservoir. Refer to the 'Lubrication' section (page 10) in this manual for proper type and level of Oil.
- Do a visual inspection of the Unit, and ensure that all fasteners are sufficiently tightened. This must be done, as some fasteners may become loose in transit.



Do not place any materials in close proximity to the Compressor. Placing materials against or close to the Unit will limit the cooling required, and could lead to premature failure.

- Place the Fused Disconnect / Breaker in the 'On' Position. Check that there is power to the Controller.
- During normal operation of the Unit, keep the Access Panels closed at all times.
- 5) Ensure the Ball Valve on the Unit is closed, press the 'Start' Button, and run the Unit up to maximum pressure. The Unit will run up to approx. 120 psi (8.3bar), at which point the Motor will continue to run but not compress air.
- 6) Once the Unit reaches 120 psi (8.3bar), it will idle for 8 or 10 minutes and shut off. For VSD units, the unit will idle for 2 minutes and shut off.
- 7) Open the Ball Valve slightly and allow the air to bleed from the Tank. Once the pressure reaches approx 100 psi (6.9bar), the Unit will start and begin to compress air after a short delay. For VSD units, this pressure is 10 psi below the cutout pressure.
- 8) Measure the amp draw as the Unit reaches maximum pressure.
- Close the Ball Valve, allow the Unit to reach maximum pressure, idle, and shut off. Once off, check the various fittings etc inside the Cabinet to ensure there are no internal leaks.
- 10) Once you are confident that there are no internal leaks, the Unit will be ready for normal use.
- Register the Unit to activate the Warranty by completing the Warranty Registration Card by Fax.



Shut off all power to the Compressor Unit before attempting any repair or maintenance.



Adjusting the settings of the Controller could adversely affect the performance of the Unit. Only those individuals with knowledge of the Unit should make any adjustments.



# **Preventative Maintenance Schedule**



When servicing the Air Compressor, shut off all power to the Unit, and drain it of air pressure.



It is the responsibility of the Compressor owner to ensure that a regular Maintenance Schedule is followed.

Noted on the following pages are general Maintenance guidelines based on average working conditions. Should the Unit be worked under extreme conditions, please contact your DV Systems Distributor for further input. As well, all maintenance/service work must be carried out by a qualified Technician.

The typical operating temperature of the Unit, this dependent on ambient temperatures, is between 70°C and 85°C (158°F and 185°F).

If the operating temperature of the Unit is too low (less than 70°C (158°F)):

- condensation will build up in the system and mix with the oil, causing internal component problems in the Unit
- Change the ambient conditions to increase the operating temperature.

If the operating temperature of the Unit is too high (above 85°C (185°F)):

- the oil will oxidize and lose it's properties, this causing internal damage to components as well
- to combat this, the oil must be changed more often than noted below.

Note: For Compressor Units used in an environment where the ambient temperature is above 32°C (90°F), the components marked with a '#' (on the chart on the following page) must be changed more frequently.

### Regular Maintenance Items.

DV Systems offers a Maintenance Kit for your Unit, namely:

**MK-G20-30-1** 20 to 30 HP 'G Series' Units (Unit Serial # '37162' and higher)

Each Kit consists of the following items, these suitable for approximately 4000 hours of operation.

(1) **DEV-3000** 5 Gal. of Synthetic Oil

(2) **DSC-624** Oil Filter

(1) DSC-001148 Air/Oil Separator Filter

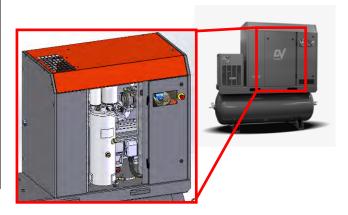
(2) **DSC-001961** Air Filter (1) **DSC-612** Inline Filter

For Units with a serial number of '37135' and lower, order Kit 'MK-G20-30'.

## Internal Access for Maintenance.

The internal components of the Unit are accessible for servicing by way of removing the LH Front Panel as shown.

The Belt access is by way of the RH Side Panel.





# **Preventative Maintenance Schedule (cont'd)**

Malatanana Itana	D-II-								Ī	/lainte	nance	Interv	al (in 0	00's of	Hours	s)						
Maintenance Item:	Daily		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
Compressor Room		_																				
Temperature	Inspect						Am	bient T	emper	ature s	hould b	e betw	een 10	°C and	40°C	(50°F a	and 10	4°F)				
Cleanliness	Inspect																					
Air Compressor Unit		_																				
Check Oil Level	Inspect																					
Replace Oil # (See Note b)	(1)					Х				Х				Х				Х				Х
Replace Oil Filter #	(2)			Х		Х		Х		Х		Х		Х		Х		Х		Х		Х
Replace Air / Oil Separator #	(3)					Х				Х				Х				Х				Х
Replace Air Intake Filter #	(4)		Х	Х	Χ	Χ	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Χ	Х	Χ	Х	Х	Х
Check Belt Tension			Χ	Χ	Χ		Х	Х	Х		Χ	Х	Х		Х	Х	Χ		Χ	Х	Х	
Replace Belts						Х				Х				Х				Х				Х
Replace Tank Relief Valve								Х						Х						Х		
Replace Solenoid	(5)					Х				Х				Х				Х				Х
Rebuild Intake Valve	(6)					Х				Х				Х				Х				Х
Rebuild Thermo Valve	(7)							Х						Х						Х		
Rebuild Minimum Pressure Valve	(8)					Х				Х				Х				Х				Х
Replace Scavenge Line Filter	(9)					Х				Х				Х				Х				Х
Motor Bearing Lubrication								Ref	er to N	lotor M	anufac	turer's	Recom	menda	ations o	n Page	13					

- Notes: a) For Compressor Units used in an environment where the ambient temperature is above 32°C (90°F), or b) where the Unit temperature runs regularly above 80°C (175°F), the components marked with a '#' must be changed twice as often (example: in 4000 hours instead of 8000), and not as noted above.
  - b) The DV Systems Oil used in the Rotary Screw Units is rated as an 8000 hour Oil. A complete Oil change must be done every 8000 hours of Unit operation, <u>or</u> every 12 months, whichever occurs first. Please refer to the Warranty on Page 27 for further information.
  - c) If a component, during a regular inspection, has proven to be defective or unfit for regular operation, it must be repaired or replaced.

Parts and Repair Kits based on the above chart are as follows:

(1)	Oil:	DEV-3000	
(2)	Oil Filter	DSC-624	
(3)	Air / Oil Separator:	DSC-001148	
(4)	Air Intake Filter	DSC-001961	(for Units of s/n '37162' and greater)
(4)	Air Intake Filter	DSC-001193	(for Units of s/n '37135' and lower)
(5)	Solenoid	DSC-002052	(for Units of s/n '37162' and greater)
(5)	2 Way Solenoid	DSC-162	(for Units of s/n '37135' and lower)
(5)	3 Way Solenoid	DSC-140	(for Units of s/n '37135' and lower)
(6)	Intake Valve Repair Kit	DSC-001999	(for Units of s/n '37162' and greater)
(7)	Thermo Valve Repair Kit:	DSC-111-1	
(8)	Minimum Pressure Valve Kit:	DSC-231	
(9)	Scavenge Line 'In Line' Filter	DSC-612	
	VSD Ambient Filter	DSC-001447	
	VSD Separation Foam	DSC-002897	

As noted previously, the '**MK-G20-30-1**' Maintenance Kit (for Unit serial numbers '37162' and higher) includes the following items:

(1) **DEV-3000** 5 Gal. of Synthetic Oil

(2) **DSC-624** Oil Filter

(1) **DSC-001148** Air/Oil Separator Filter

(2) **DSC-001961** Air Filter (1) **DSC-612** In-Line Filter



# **Common Compressor Faults**

<u>Common Faults.</u> Noted below are the most common Faults experienced.

### 'CSC300' Alarms.

There is an issue with the Unit, but it will still operate.

Code:	Description:	Most Common Items to Check:
A:0083	Motor phase imbalance	Check supply voltage, fuses and cable
A:0119	Delivery Pressure High	Solenoid not working, Intake Valve Orifice clogged, Transducer dirty or faulty, pressure changed incorrectly, alternate external pressure source
A:0129	Delivery Temperature High	Ambient temp high, Unit dirty, low oil level, no air flow through Unit, Temp Sensor defective
A:2816	Power Failure Occurred	Press 'Reset' Button and restart Unit
A:4819	Routine Service Due	Service Unit and reset Service Timer (Page 'P16' on Controller)
A:4809	Grease Service Due	Service motor and reset Grease Service Timer (Page 'P16' on Controller)

### 'CSC300' Shutdown Errors.

There is an issue with the Unit, and the Unit will not operate until the Fault has been addressed.

Code:	Description:	Most Common Items to Check:
E:0010	Emergency	Emergency stop switch is pressed
E:0070	Fan Motor Alarm	Check electrical connections
E:0082	Motor Overload	Motor drawing high amps, low voltage, high pressure settings, low oil level
E:0083	Motor phase Imbalance	Check motor connections in the control panel and motor connection box
E:0090	Phase Sequence	Rotation of Motor wrong, sequence order of supply cable incorrect
E:0091- 0093	Phase L1/L2/L3 Fault	Check supply voltage, fuses and cable
E:0115	Delivery Pressure Sensor Fault	Transducer not making good electrical contact, or defective
E:0119	Delivery Pressure High	Solenoid Not working, Intake Valve Orifice clogged, Transducer dirty or faulty, pressure changed incorrectly, alternate external pressure source
E:0125	Delivery Temp Sensor Fault	Temperature Sensor not making good electrical contact, or defective
E:0129	Delivery Temperature High	Ambient temp high, Unit dirty, low oil level, no air flow through Unit, Temp Sensor defective
E:0902	Anti-Rotation	Rotation of Main Motor wrong, Solenoid Valve not relieving pressure
E:1902	Inverter Fault	Variable frequency drive tripped. Check VFD screen for more info.

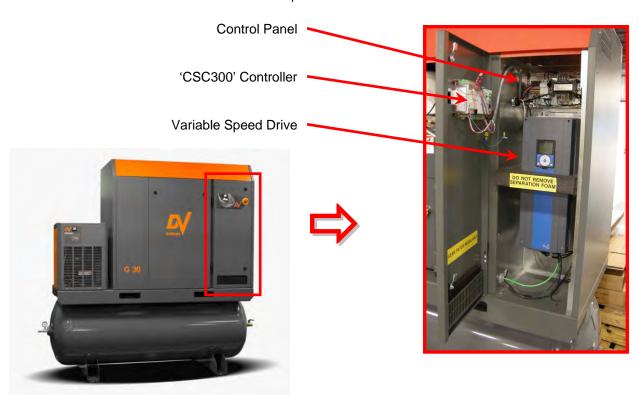


# **Variable Speed Drive**

Your DV Systems 'G Series' Rotary Screw Compressor Unit may have been equipped with an optional 'Variable Speed Drive', or 'VSD'. A Compressor with an integral VSD can handle the constant loads for an extended period of time (running at close to 100% duty cycle), but it can also run at slower speeds to accommodate lower air demands at other times of the day.

Variable Speed Drives can reduce the overall energy costs associated with operating the Compressor Unit by simply controlling the speed of the Motor and Air End to match consumption. As Rotary Screw Compressors using the variable speed technology match the varying air demands and therefore have the ability to impact your energy consumption, some energy providers have offered rebates when these Units are purchased. Consult your local energy provider to determine if this applies.

Shown below is a 'G Series' Unit with a Variable Speed Drive.



### **VSD** Interface

The VSD Controller Interface is shown at right. It provides a means of operating, monitoring, and adjusting the parameters of the Variable Speed Drive.

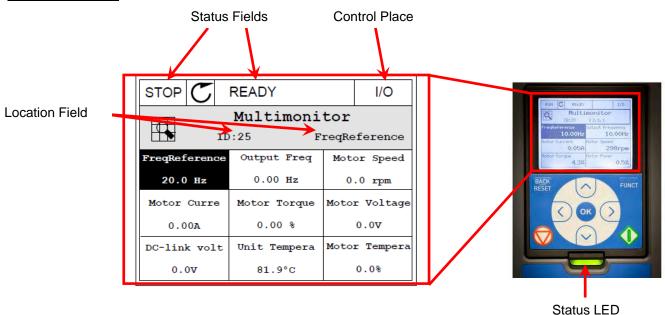
Please note that adjustments to the parameters of the Variable Speed Drive should be made only by qualified Technicians, or with the guidance of factory trained personnel. Incorrect adjustments will affect the performance of the Unit, and could result in damage to the Drive.





# **Variable Speed Drive (cont'd)**

### **Operating Screen**



### **Typical Drive Status Indicators**

The Status LED of the drive shows the status of the drive. It can show 5 different statuses.

Color of the LED light	Status of the drive
Blinking slowly	Ready
Green	Run
Red	Fault
Orange	Alarm
Blinking fast	Downloading software

The status of the drive is also indicated on its graphical display.

Status Fields: STOP / RUN and READY / NOT READY / FAULT

Control Place: PC / IO / KEYPAD / FIELDBUS. The default Control Place shall be 'I/O'.

Location Field: the parameter ID number and the current location in the manual.

Default page of the graphical display is set to Multimonitor. On this Multimonitor page, 9 drive status items are displayed.

Output Frequency: The output frequency to the motor

Frequency Reference: The frequency reference to motor control. It varies between min. and max. frequency.

Analogue Input 2: The input speed signal as a percentage of the used range.

Motor Current: The measured current at the motor leads DC Link Voltage: The measured voltage at the drive capacitors.

Motor Speed: The actual speed of the motor.

Unit Temperature: The heatsink temperature of the VFD.

Motor Temperature: The calculated motor temperature in percentage of the nominal working temperature.

Slot A DIN 1, 2, 3: The status of the digital input  $1 \sim 3$ .



# Variable Speed Drive (cont'd)

### **Common VSD Fault Codes**

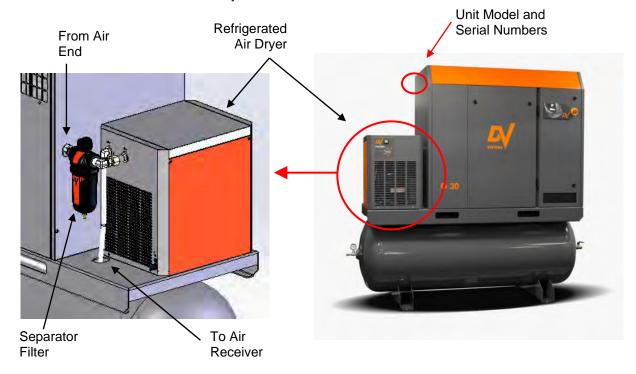
Noted below are the most common fault codes that may appear on the VSD. For a more thorough list, please check the manual which deals exclusively with the Vacon Variable Speed Drive and which accompanied the Unit.

Fault Code	Fault	Possible Causes:	Corrective Measures:				
1	Over-current.	Current too high in Motor Cable.	Check loading. Check Motor. Check Cables.				
2	Over-voltage.	The DC link voltage has exceeded the limits.  - too short a deceleration time  - high voltage spikes in supply	Make deceleration time longer. Check input voltage.				
3	Earth Fault.	Insulation failure in Motor or wiring.	Check Motor wires and Motor.				
7	Saturation.	- component failure	Cannot be reset. SWITCH OFF THE POWER and DO NOT RESTART THE DRIVE. Contact distributor.				
9	Undervoltage	The DC link voltage is lower than the limits.	Check input voltage.				
10	Input phase	- supply voltage malfuntion - a defective fuse or malfunction in the supply cables	Check input voltage.				
13	AC drive undertemperature	Heatsink temperature is below -10°C.					
14	AC drive overtemperature	Heatsink temperature is over 90°C.  Overtemperature warning is issued when the heatsink temperature exceeds 85°C.	Check the amount and flow of cooling air. Check the heatsink for dust. Check the ambient temperature. Ensure the switching frequency is not too high in relation to ambient temperature and motor load				
15	Motor stall.	Motor stall protection has tripped.	Check Motor and load.				
16	Motor over-temperature.	Motor is overloaded.	Decrease motor load.				
17	Motor under-load.	Motor under-load temperature has tripped.	Check load.				
32	Fan cooling.	- Fan speed does not match the speed reference Fan life time (50,000 h) is reached.	Check drive fan. Contact Distributor.				
41	IGBT temperature	The calculated IGBT temperature is too high.	Check loading.  Check ambient temperature and amount of cooling air.  Check parameter settings.				
46	Real Time Clock	The voltage of the RTC battery is low.	Replace the battery.				
50	Al low fault	Current at the analogue input is less than 4 mA control cable is broken or loose signal source has failed.	Check the current loop circuitry.				
52	Keypad communication fault.	The data connection between the control keypad and the frequency converter is broken.	Check keypad connection and possible keypad cable.				
54	Slot fault.	Defective option board or slot.	Check board and slot. Contact the nearest Distributor.				



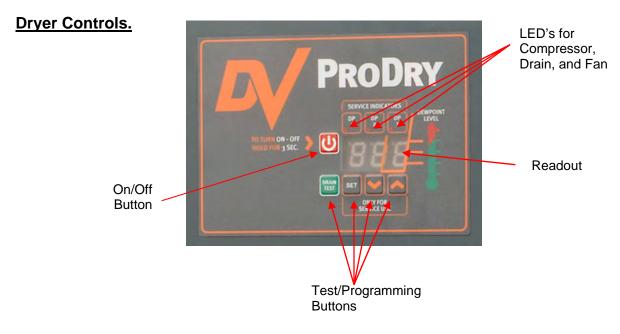
# **Separator Filter and Refrigerated Air Dryer**

Your Unit may be equipped with a Separator Filter and an 'ASD Series' Refrigerated Air Dryer Unit as indicated below. These items are located in the compressed air lines after the air is compressed but before it enters the Air Receiver. This allows for what is termed a 'dry' Tank.



\*Drains will discharge automatically under pressure. It is recommended that pneumatic drain tubes be anchored and filtered as per your local municipality regulations.

More detailed information concerning the Dryer Unit is included in the Dryer manual. The information contained in this manual is a 'quick reference' only.



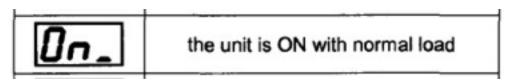


# Separator Filter and Refrigerated Air Dryer (cont'd)

### **Typical Dryer Operation.**

The Dryer will operate as follows:

- Pressing the 'On/Off' Button for 3 seconds will start the Unit
- There is a time delay of up to 2 minutes before the Refrigerant Compressor starts.
- The Condenser Fan will start approx. 30 seconds there-after.
- The Fan will not normally run at full speed, this indicated by a flashing LED
- The readout will initially show ambient temperature indicated by 3 horizontal bars on the readout
- Once the Fan and Compressor start, the dew point of the Unit will decrease to approx. 1°C, this indicated by 1 or no horizontal bars.
- Once at approx. 1°C, the Fan will stop, only to be called to run again once the temperature increases to approx. 5°C
- Pressing the 'On/Off' Button (when the Unit is operating) will run the Fan at full speed for several seconds, after which the Unit will stop. (The LED will be on continually while the Fan runs at full speed.)



• As well as showing the dew point, the readout may indicate several fault codes as suggested below.

### **Typical Fault Codes.**

The readout will indicate a variety of 'fault codes', the most common being as follows:



### **Energy Saving Mode.**

- The Dew Point has been running at below -1°C for over 6 minutes.
- The Unit will automatically restart operation at 6°C.



### Temperature Probe Alarm.

- The Temperature Probe is not working properly. It may not be connected to the Board, or the Probe may be defective.
- Replace the Probe if necessary.



### High Temperature Alarm.

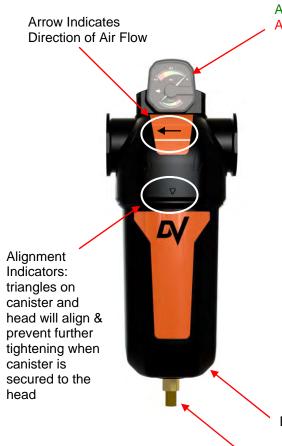
- The Dew Point has been running at above 12.5°C for over 6 minutes. The Unit must be manually turned off and on
- The fault could be caused by a dirty radiator, high ambient temperature, a faulty Fan, or a faulty refrigerant Compressor, to name only a few.



# Separator Filter and Refrigerated Air Dryer (cont'd)

### **Typical Separator Filter.**

As previously noted, the Separator Filter is located between the Air End and the Refrigerated Dryer. It contains a 1 micron Separator Element which protects the Dryer Unit by removing liquids and solid particles 1 microns and larger.



Dual Indicating Gauge (DF002)
Arrow pointing to Green = Filter Element is Clean
Arrow pointing to Red = Filter Element is Dirty



The label shown above is included with a replacement Filter Element, and should be affixed to the outside of the Bowl for future reference.

Bowl which Contains Filter Element (DF112A)

Float Drain (DF003)

### Filter Element Replacement.

To replace a dirty Filter Element:

- Shut the Compressor Unit off.
- Bleed any compressed air from the system to ensure there is no pressure at the Filter.
- Unscrew the Bowl from the assembly, exposing the dirty Filter Element.
- Pull the Filter Element out of the Canister Head
- Clean any debris from the inside of the Bowl
- Remove the O-ring from the inside of the Canister Head
- Install the new O-ring making sure it is properly seated
- Place the new 1 micron Separator Filter Element into the Bowl (the filter is self-centring).
- Screw the Canister with the Element inside it to the Canister Head until the indicators line up.
- Gauge will return to green when Filter is once again under pressure.



# **Trouble Shooting Guide**



When servicing the Air Compressor, shut off all power to the Unit, and drain it of air pressure.

The 'Conditions', 'Causes', and 'Suggested Corrections' as indicated below and on the following page(s) are only a guideline for failures that we have found to be most common.

Though this information is provided in this booklet, it is assumed and expected that any personnel involved in the servicing of an Air Compressor Unit is knowledgeable with this type of equipment. Do not attempt to service a Compressor Unit unless you are familiar with it, as there are many issues that may come into play, the most important being personal safety and the welfare of the Unit.

Should you have any questions, or require servicing to your Unit, please contact your local DV Systems Distributor/Service Center.

<b>Condition:</b>	Cause:	Suggested Correction:
A. Unit won't start.	No power to the Unit.	Check that power at the disconnect or breaker is on. Also, check any primary and secondary fuses.
	Loose and/or missing wires in the electrical circuit.	Check that all wiring connections are tight. With a wiring schematic, check that all wiring is present and correct.
	Emergency Stop Button pressed in.	Release by twisting and pulling out.
	Motor Overload is tripped.	Reset the overload.
	Compressor over-heated and stopped.	Insufficient air flow to cool Unit. Ambient temperature too high. Heat Exchanger is dirty. Faulty Temperature Switch. Oil level is low.
	Compressor stopped by over-pressure.	Solenoid Valve faulty. Seals on Intake Valve leaking. Intake Valve Spring broken. Pressure Transducer stopped Unit. Lower maximum pressure setting.
	Unit has 'timed out' / shut off because pressure has not gone below cut-in pressure of 100 psi.	Drop pressure below 100 psi.
	Power interruption.	Reset the Unit.



# **Trouble Shooting Guide (cont'd)**

<b>Condition:</b>	Cause:	Suggested Correction:				
B. No or Insufficient Air Flow.	Air Filter is dirty.	Replace the Air Filter.				
	Oil Separator is blocked.	Replace the Oil Separator.				
	Intake Valve is faulty.	Repair or replace the Intake Valve.				
	Air leaks in the system.	Check the Unit and system for air leaks.				
	Pressure limits are incorrectly set.	Adjust the pressure settings.				
	Blowdown Solenoid Valve is open.	Check the wiring to the Solenoid and replace as necessary.				
	Belt are broken or slipping	Check Belt tension and that Belts are in good condition.				
C. Unit is overheating.	Ambient temperature is too high.	Check cooling air circulation.				
	Blocked air circulation at the Unit.	Check the air circulation in and around the Unit.				
	Heat Exchanger is dirty.	Clean the Heat Exchanger				
	Oil level is too low.	Add oil as required.				
	Using wrong type of compressor oil.	Change to the factory recommended oil.				
	Thermo Valve is faulty.	Check and repair as necessary.				
	Oil Filter is blocked.	Replace the Oil Filter.				
	Temperature Sensor is faulty.	Check the wiring to the Temperature sensor. Replace the Sensor if necessary.				
	Thermostat is faulty.	Replace the Thermostat.				
	Pressure is too high.	Lower the pressure setting.				
	Cabinet door/panel is open/off.	Secure the door/panel to the Unit.				
D. Compressor Starts Slowly.	Intake Valve not functioning properly.	Check Intake Valve operation. Repair or replace as required.				
	Ambient temperature is too low.	Stop and restart once ambient increases.				
	Minimum Pressure Valve leaking back to Air End.	Repair or replace the Minimum Pressure Valve.				
	Minimum Pressure Valve setting is too high.	Adjust Minimum Pressure Valve setting to 65 psi.				
	Using wrong type of oil.	Change to factory recommended oil.				



# **Trouble Shooting Guide (cont'd)**

<b>Condition:</b>	Cause:	Suggested Correction:			
E. Intake Valve Leaks Oil	Intake Valve Seal leaks.	Repair using an Intake Valve Repair Kit.			
When Unit Stops.	Intake Valve stuck in open position.	Repair or replace the Intake Valve.			
	Blowdown Solenoid not functioning.	Replace the Solenoid.			
F. Oil Consumption is Too	Oil level is too high.	Reduce the oil level to the proper level.			
High.	Oil Return Line (Scavenge Line) is blocked.	Clean and/or replace the Scavenge In-Line Filter.			
	Oil Separator is saturated with oil.	Replace the Oil Separator.			
	Wrong type of oil used.	Change to factory recommended oil.			
	Unit is operating at too high a temperature.	See 'Section C'.			
	Oil leak.	Repair oil leak.			
	Unit load is light or excessive load/idle cycles.	Ensure Unit is set to operate at correct pressures, and there is a <u>minimum</u> of 10 psi differential. Also the Unit could be oversized for the tank capacity.			
G. Compressor Surges.	Restriction in Heat Exchanger or Hoses.	Flush out or replace.			
	Pressure Transducer setting is incorrect or malfunctioning.	Set pressure as per instructions or replace.			
	Blockage at Unit outlet.	Check for obstructions in outlet piping.			
	Dryer is freezing up, not allowing air to pass through.	Check that the Dryer parameters are correct. Increase dew point to 2.0 if required.			
	Air Receiver is too small.	Use a minimum 120 Gallon Tank.			
H. High Power Consumption.	Improper air pressure settings.	Reset the pressure as per factory defaults.			
	Blowdown Solenoid is not functioning.	Inspect or replace as necessary.			
	The voltage in the building is too low or there is a phase imbalance.	Contact an Electrician to verify.			
	The Motor is failing.	Have Motor inspected.			
I Fault Alarms.	Emergency Stop.	Ensure Emergency Stop Button is not pressed in.			
	High Temperature.	See 'Section C'.			
	Low Temperature.	Ambient temperature is too low. Increase to 10°C.			
	High pressure.	Check the pressure settings, the Pressure Transducer and the wiring to the Transducer.			



# **Limited Warranty: G Series Screw Compressors**

The manufacturer warrants the product manufactured by it and sold to the original purchaser, when properly installed, operated, applied, and maintained in accordance with procedures and recommendations outlined in the manufacturer's instruction manuals, to be free of defects in material and workmanship for a period of one (1) year from the date of installation, not to exceed eighteen (18) months from the date of manufacture, provided such defect is discovered and brought to the manufacturers attention within the aforesaid warranty period, conditional upon the following:

- 1) Genuine 'DEV-3000' Lubricant and Parts are used for the full warranty period.
- 2) The Unit is maintained in accordance with the manufacturer's instruction manual for the Unit, with the following minimum maintenance requirements:
  - A) Complete Oil change every 8000 hours (not to exceed 12 months) from the date of initial start-up using 'DEV-3000' Lubricant. When operating in adverse conditions, Oil changes must be done more frequently.
  - B) Oil Filter must be changed every 4000 hours (not to exceed 6 months) from the date of initial start-up using the appropriate DV Systems part. When operating in adverse conditions, Oil Filter changes must be done more frequently.
  - C) Air Intake Filter must be changed every 2000 hours (not to exceed 6 months) from the initial date of start-up using the appropriate DV Systems part. When operating in adverse conditions, Air Intake Filter changes must be done more frequently.
  - D) Air/Oil Separator Filter must be changed every 8000 hours (not to exceed 12 months) from the date of initial start-up using the appropriate DV Systems part. When operating in adverse conditions, Air/Oil Separator changes must be done more frequently.
  - E) Appropriate and complete maintenance records must be kept by the End User. As well, the End User must retain copies of invoices indicating the timely purchase of the DV Systems Compressor Oil and maintenance/service parts. All records and invoices must be kept for the duration of the manufacturer's warranty period.
- Disclaimer
- A) The following items are considered normal wear items, and are warranted for a period of one (1) year from the date of installation, not to exceed eighteen (18) months from the date of manufacture; the Shaft Seal on the Air End Drive Shaft, the Intake Valve Assembly (and its components), and the Minimum Pressure Valve.
- B) All electrical components are warranted for a period of one (1) year from the date of installation, not to exceed eighteen (18) months from the date of manufacture.

An additional four (4) year extended Air End Warranty and a four (4) year extended Three Phase Baldor Motor Warranty are available on those Units that:

- A) have been registered with the manufacturer within thirty (30) days from the date of purchase, this done by returning the 'DV Systems Rotary Screw Compressor Start-Up Sheet' and
- B) have been maintained in accordance with the manufacturer's instruction manual as noted in '2' above.

The manufacturer will repair or replace any product or part determined to be defective by the manufacturer within the warranty period, provided such defect occurred in normal service and is not the result of misapplication, misuse, abuse, neglect, incorrect maintenance, accident, or normal wear. Normal maintenance items requiring routine replacement are not warranted. Please refer to the appropriate service bulletin to determine normal maintenance requirements.

The warranty covers parts and labour for the warranty period (excluding the Three Phase Baldor Motors. Labour is not covered in the (4) year extended Baldor Motor Warranty.) Either repair or replacement shall be at the sole option of the manufacturer. Any service performed on the product by anyone other than the manufacturer must first be authorized by the manufacturer. Unauthorized service voids the warranty and any resulting charge or subsequent claim will not be paid.

Products repaired or replaced under warranty shall be warranted for the unexpired portion of the warranty applying to the original product, based on the original date of invoice as outlined above.

There is no other expressed warranty. Implied warranties including those of merchantability and fitness for a particular purpose are limited to one (1) year from the date of invoice to the extent permitted by law and any and all implied warranties are excluded. This is the exclusive remedy. Liability for consequential damages under any and all warranties are excluded to the extent exclusion is permitted by law.

This warranty gives you specific rights, and you may also have other rights within your jurisdiction.

This warranty does not cover:

- 1) Merchandise that has become inoperative because of ordinary wear, misuse, neglect, accident, or improper and unauthorized repair or alteration.
- 2) Electric Motors manufactured and identified as the product of another company.
- 3) Compressor Units that have not been properly maintained in accordance with the recommended maintenance and lubrication change procedures and/or that have been subject to inordinate use through being inadequately sized or poorly installed.
- 4) Compressor Units using other than the recommended lubricant.
- 5) Costs occasioned by the removal, replacement, or repair of merchandise (other than by DV Systems) without previous authorization from DV Systems.
- 6) Expenses incurred in travel or lodging beyond a 100 kilometre (60 mile) distance from the nearest DV Systems Authorized Service Centre.
- 7) Expenses incurred in the return of equipment for inspection purposes to the manufacturers facility. All returns must be pre-authorized, returned 'Freight Prepaid', and accompanied by a 'Return Material Authorization (RMA) Number' (obtainable through DV Systems).
- 8) Products, parts, materials, components, or accessories manufactured by others or supplied in connection with the sale of the manufacturers products.
- 9) Repair and transportation costs of merchandise determined not to be defective under the terms and conditions of this warranty.
- 10) The cost of rental or loaner equipment while the customer's original equipment is being assessed, repaired, or replaced.
- 11) Consequential damages in the event of product failure.

All decisions by DV Systems Inc. with regard to this policy shall be final. DV Systems will not be responsible for any claimed defective materials returned other than in accordance with this statement of policy or without our prior authorization.

DV Systems Inc. (Canada)

490 Welham Road Tel: (705) 728-5657 Barrie, Ontario, L4N 8Z4, Canada Fax: (705) 728-4974 DV Systems, Ltd. (USA) 128-B Talbert Road

Mooresville, NC, 28117, USA

Tel: (704) 799-0046 Fax: (704) 799-0355

MODEL	HP	PRESSURE	SCFM @ MAX.	NOMINAL SOUND @	М		MEPLATE AN	ЛР	WEIGHT	
NO.		PSI	PRESSURE	1 METRE	200V	230V	460V	575V	LBS	The state of the s
G20	20	100-120 125-145	82 73	67 dBA	53	46	23	18.4	1120	
G25	25	100-120	100	68 dBA	65	56	28	22.7	1120	
G30	30	125-145 100-120	91 116	69 dBA	78	68	34	27	1120	
	2 9/16	D 5/16"	DUCTIBLE EX OUTLET WITH MOUNTING IT	CHAUST AIR		Q.	POWEF 1° CON OPENIN	R IN DUIT		INSTALLATION REQUIREMENTS  1. MAINTAIN 3 FEET DISTANCE FROM WALLS AND OTHER OBJECTS FOR PURPOSE OF COOLING AND SERVICING  2. COMPRESSOR MUST BE LEVEL AND ANCHORED DOWN TO SOLID LEVEL FLOOR.  3. AMBIENT CONDITIONS: 10°C (50°F) MIN. 40°C (104°F) MAX.  4. APPROACH TEMP. FROM TANK 5°C (41°F).
46.3	AIR OUTLET 3/4*NPT		EMOVABLE SERVICE CO	TING POINTS — 45 3/16" — 49 7/16"	ł	• ©	EMEI STOR	RGENCY		AIR INTAKE OPENING WITH 1/4" MOUNINTING INSERTS  7 7/8"  7 7/8"  REMOVABLE SIDE PANEL  REMOVABLE SIDE PANEL  1/2" HOLE  26 1/8"  28"
IMPORTA or reprova approva specifica	.NT NOTE: duced in c I of DV SY ations subj	This print is the any manner, n STEMS, INC. D ect to change	e confidential proper or submitted to other V SYSTEMS, INC. is co without notice.	ty of DV SYTEMS parties for exc ntinually trying	i, INC. It is mination to improv	not to be without th e its produ	used e prior ucts,			SYSTEMS  NAME OF PROJECT  DESCRIPTION OF DRAWING  SALES-ENGINEERING DRAWING  DRAWING NO. SHT NO REV.  2/13/17 N.T.S G20 G25 G30

				NOMINAL	М	OTOR NAM	1EPLATE AI	MP	AIR						
MODEL NO.	HP	PRESSURE PSI	SCFM @ MAX. PRESSURE	SOUND @ 1 METRE		3-Ph	HASE		RECEIVER GAL.	DRYER	FILTER ELEMENT	WEIGHT LBS			
		100 100		TWETTE	200V	230V	460V	575V	GAL.						
G20TD	20	100-120	82 73	67 dBA	53	46	23	18.4	120	ASD-100 115V, 60Hz, 11.6A	1 MICRON	1683			
		100-120	100							ASD-100					
G25TD	25	125-145	91	68 dBA	65	56	28	22.7	120	115V, 60Hz, 11.6A	MICRON	1683			
		100-120	116							ASD-100	1				
G30TD	30	125-145	106	69 dBA	78	68	34	27	120	115V, 60Hz, 11.6A	MICRON	1683			
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	\					<b>N</b> /			3. AMB	IENT CONDITI	ONS:	^~	16		
	Y	/		<u> </u>		$-\!$	POWE	ER IN NDUIT		C (50°F) MIN. 4 ROACH TEMP.					
		/2	<u> </u>	<del>- \-</del>	_		OPEN	IING	4. AIII	TOAOTT TEIWIT.	THOW TANK	0 0 (411).			
DUCTIBLE	TLET WITH	1 1/4" /	7 11/16"	\_F	REMOVABLE OP PANEL										
MOUN	ITING INSE	ERTS—	8 11/16"	'	01 1711122								~~		
			-	— 49 7/16" ——		-									
			REMOVABLE	CSC300 CONTROLLE	D WITH			VS	D AIR				AIR INTAKE OPENING WITH - 11 5/8"		
			SERVICE DOOR—	Y-DELTA STA					JTLET 7				1/4" MOUNINTING INSERTS 7 7/8" REMOVABLE SIDE PANEL		
1	MOUNTE	D.			$\overline{}$						$\neg$	П	1 7:11111111		
AIR D	MOUNTE RYER WIT 6FT) CORI	H			$\cdots$				/· <b></b>						
SEPA	ARATE 115 ER SUPPL	iV .		<b>\</b>		ุ⊛∥			1.				← ← TITITITIII / FILTER WITH		
	REQUIRE			· ·	[ <del>]</del> [	]@(			d		REMO\ SIDE P	ABLE	6MM DRAIN TUBE		
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PRESS GAUG	SURE	<del></del>		7	<u> </u>		AIR 3/4	ROUTLET			J	>			
SAFET VALVE	ry /					\		LL VALVE	[	□ \					
	9						سلر			<b></b>	\	<b>~</b> , ↓			
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						$\perp \downarrow$		-		•		$\rightarrow$			
<u> </u>	· · ·	[;;]	LIFTING	POINTS	ΨТ	<b>b—d</b> b _	<u>+</u> +		4	•	4	E.			
	9/16" X SLC	DT —	451		į	1 7/8" -	J		2	3 3/4"	j		1/4" MANUAL DRAIN		
	•	-	45" - 79 3/4'		-	•	-			6 1/2"	<del>-</del>				
												7	NAME OF PROJECT DESCRIPTION OF DRAWING		

SALES-ENGINEERING DRAWING

SHT NO REV.

DRAWING NO.

G20TD G25TD G30TD

G20-30TD SCREW COMPRESSOR WITH DRYER

DATE

1/05/17

SCALE

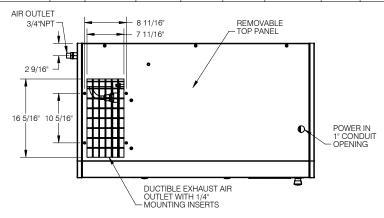
N.T.S

DRAWN BY CHECKED BY

LT

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		PRESSURE PSI	0051	1 0 100 11	- DOI	NOMINAL	MOTO	AGE*			
MODEL NO.	HP		SCFI	/I @ 120, 14	5 PSI	SOUND @	3-PHASE				WEIGHT LBS
110.		1 01	100% CAP.	70% CAP.	40% CAP.	1 METRE	200V	230V	460V	575V	
G25VSD	25	110-120	100	70	40	68 dBA	65	56	28	22.7	1195
G25V5D		135-145	96	67	38	00 UDA		36			1195
G30VSD	30	110-120	116	81	46	60 dPA	78	68	34	27	1195
GSUVSD	30	135-145	112	78	45	69 dBA	/8	08	34		1195



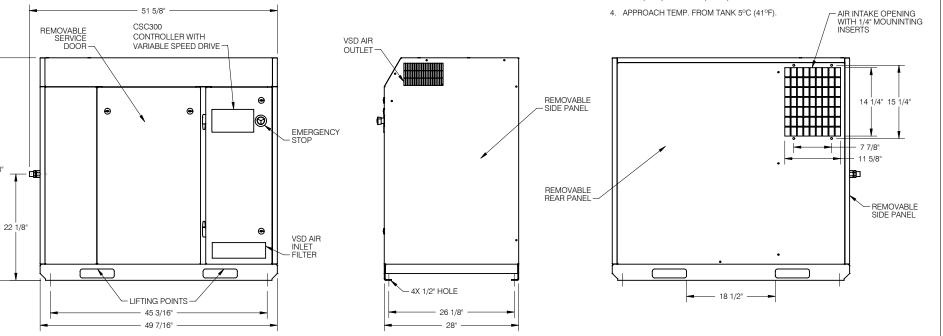
FUSE TABLE											
VOLTAGE	PHASE	FUSE TYPE	FUSE AMP								
VOLIAGE	FHASE	FUSE TIFE	25 HP	30 HP							
200			80	110							
230		J FAST-	70	80							
460	3	ACTING (DFJ/HSJ)	35	40							
575			35	35							

\*MOTOR AMP IS 100% OF FULL LOAD, @70% & 40% THE AMP WILL DECREASE PROPORTIONALLY



### **INSTALLATION REQUIREMENTS**

- MAINTAIN 3 FEET DISTANCE FROM WALLS AND OTHER OBJECTS FOR PURPOSE OF COOLING AND SERVICING
- 2. COMPRESSOR MUST BE LEVEL AND ANCHORED DOWN TO SOLID LEVEL FLOOR.
- 3. AMBIENT CONDITIONS: 10°C (50°F) MIN. 40°C (104°F) MAX.



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46 3/8"



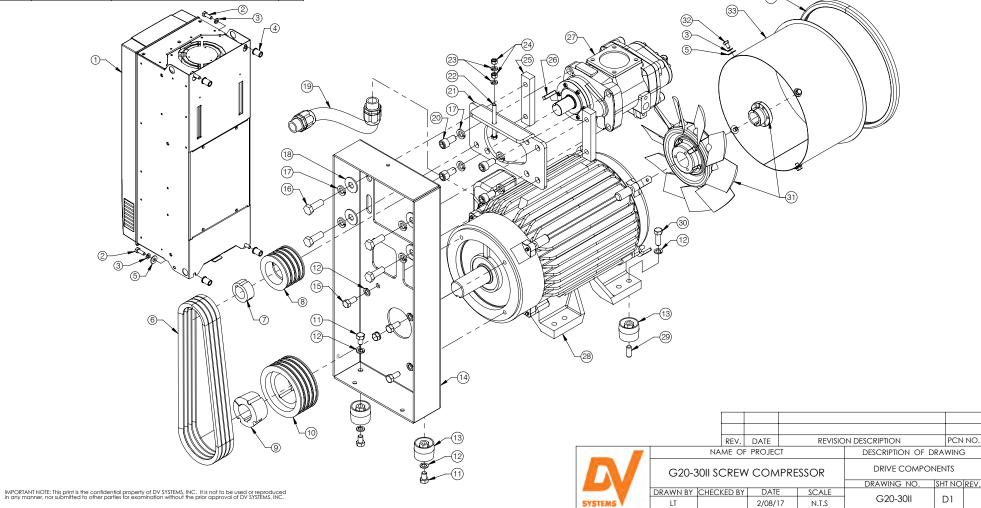
	NAME OF	PROJECT		DESCRIPTION OF DRAWING				
G25-30'	VSD SCRE	w сомря	RESSOR	SALES-ENGINEERING DRAWING				
				DRAWING NO.	SHT NO	REV.		
DRAWN BY	CHECKED BY	DATE	SCALE	G25VSD				
LT		2/13/17	N.T.S	G30VSD				

MODEL		DDE001 IDE	SCFI	VI @ 120, 14	5 PSI	NOMINAL	MOT	OR NAMEP		TAGE*	AIR		EII TED	MEIOLIT		
MODEL NO.	HP	PRESSURE PSI	100% CAP.		40% CAP.	SOUND @ 1 METRE	200V	3-PH 230V	HASE 460V	575V	RECEIVER GAL.	DRYER	FILTER ELEMENT	WEIGHT LBS		
		110-120	100% CAP.		40% CAP.		2007	2300	4000	5/50	0,7 (2.1					
G25TDVSD	25			70		68 dBA	65	56	28	22.7	120	ASD-100 115V, 60Hz, 11.6A	1 MICRON	1758		
		135-145	96	67	38							11.0A				
G30TDVSD	30	110-120	116	81	46	69 dBA	78	68	34	27	120	ASD-100 115V, 60Hz,	1 MICRON	1758		
		135-145	112	78	45							11.6A	MICHON		HANNES AND	
				OUTLET	LE EXHAUS WITH 1/4"									1	HASSING AND	
	_		<del></del>	/- MOUNT	ING INSERT	S					FUSE T		SE AMP			
			<b>#</b>	•				Ī	VC	DLTAGE	PHASE FUSE	YPE 25 HP	30 HP			
	/ <u> </u> _	<u> </u>	.II <del></del>	-			$\  \  $	 17 7/8"		200		80	110	INSTALL	LATION REQUIREMENTS	05-
_				·				1							INTAIN 3 FEET DISTANCE	
•	٦.			5 5			e	<b>₽</b> □		230	3 J FA	VG -	80	FROM	OM WALLS AND OTHER JECTS FOR PURPOSE OF	_
	\				ν.		<b>"</b>   /			460	(DFJ/I	HSJ) 35	40	COO	OLING AND SERVICING	
							$-\!$	POWER 1" CONE		575		35	35	AND	MPRESSOR MUST BE LEVEL DANCHORED DOWN TO	
	<u> </u>		7 11/16"		<del>\</del>		<del>5</del>	─ OPENIN	G	*MOT(	OR AMP IS 10	n% OF FULL	LOAD		LID LEVEL FLOOR.	
			8 11/16"	'	/	REMOVABLE TOP PANEL				@70%	& 40% THE A	MP WILL DE	CREASE		BIENT CONDITIONS: C (50°F) MIN. 40°C (104°F) MAX.	
			1	1	10.7/10"		1			FNOF	JITTONALLT			4. APPF	PROACH TEMP. FROM TANK 5°C (41°F).	
			DEMOVAE	N. F	49 7/16" — CSC300											
			REMOVAE SERVI DO	CE	CONTROL	LER WITH SPEED DRIVE –			VOD AID						AKE OPENING WITH 11 5/8" REMOVABLE	
<u> </u>			n 50		VANIABLE	SPEED DRIVE	_		VSD AIR OUTLET -	<u></u>	<b></b>	• 1	п	1/4 1000	SIDE PANEL	
I AIR C	MOUNTE RYER WIT	D H				/	Ш			<i>•</i>					↑ <b>† † † † † † † †</b>	
2M (	6FT) CORI ARATE 115	),				T	e			[		1			COALESCING	
POW	ER SUPPL REQUIRE	.Y		● `	•		9      9		(			REMO	OVABLE		φ 4 full tube	
		\				1 -						SIDE F	PANEL		<u> </u>	
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			鯯												A Trip	
												DE	MOVABLE	1		
								VSD AIR INLET				RE/	AR PANEL			
73 3/16"						9		FILTER		1		•				
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PRES	SURE		_			<u> </u>	{	AIR O	UTLET			$\vdash$	<u> </u>			
GAUG SAFE	Y /		1		- 1			3/4" N BALL	VALVE				/	<b>6</b>		
VALVE			1		- 1		1	<u>,</u>		/	л		_ ]			
<b>    </b>	₽						<b>J</b> ed			(		1	ग्री•प्			
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•			1	- LIFTING PO	DINTS			<u> </u>		Ĺ						
	9/16" X SLC	1" )T —					1			Th		1		1/4" MAN	NUAL DRAIN	
	-	4		— 45" — — 79 3/4" -		-	1 7/8" —			-	- 23 3/4" - 26 1/2"	-				
'								'		· 					NAME OF PROJECT DESCRIPTION OF DRAWIN	IG
IMPORTA	NT NOTE:	This print is the	e confident	ial property	of DV SYTE	MS, INC. It is n	ot to be u	sed					7	G	G25-30TDVSD SCREW COMPRESSOR WITH DRYER  SALES-ENGINEERING DRAW	/ING
approvo	I of DV SY	stėms, inc. e	OV SYSTEMS,	INC. is con	parties for e tinually tryi	examination wing to improve i	nout the place	orior 's,				LV			DRAWING NO. ISHI NO	O REV.
specifico	anons subj	ect to chang	e wiiriout no	JIIC <del>e</del> .								SYSTEMS		LT	N BY         CHECKED BY         DATE         SCALE         G25TDVSD           1/05/17         N.T.S         G30TDVSD	

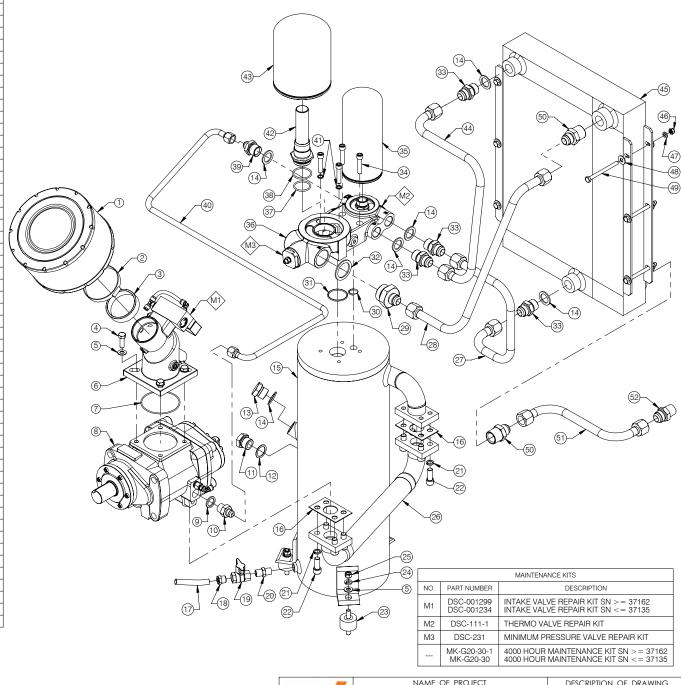
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DSC-002961 DSC-002962 DSC-002963 DSC-002964 DSC-002965	INVERTER G25-200V, G30-230V INVERTER G30-200V INVERTER G30-460V INVERTER G25-575V, G30-575V INVERTER G25-230V INVERTER G25-400	1
2	SS-13	5/16-18 X 7/8 HHCS	4
3	SS-1503	5/16" LOCKWASHER	8
4	SS-02002	5/16-18 THREADED INSERT	4
5	SS-1524	5/16" FLAT WASHER	6
6	DSC-001158 DSC-001159 DSC-001160 DSC-001417	BELT G20 120PSI BELT G25 BELT G30 BELT G20 145PSI	4
7	DSC-001669 DSC-001670	AIR END BUSHING G20, G30 AIR END BUSHING G25	1
8	PU-9253 PU-9254 PU-9256	AIR END PULLEY G20 120PSI, G30 120 PSI AIR END PULLEY G25 AIR END PULLEY G20 145PSI, G30 145PSI	1
9	DSC-001155 DSC-001396	MOTOR BUSHING G25, G30 MOTOR BUHSING G20	1
10	PU-9254 PU-9255 PU-9257	MOTOR PULLEY G20 MOTOR PULLEY G25 120PSI, G30 MOTOR PULLEY G25 145PSI	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	SS-45	1/2-13 X 1.125" HHCS	4
12	SS-1506	1/2" MEDIUM LOCKWASHER	10
13	ACC-9079	VIBRATION ISOLATOR	4
14	DSC-002927	MOTOR-AIR END FRAME	1
15	SS-73	1/2-13 X 1.125" HHCS	4
16	SS-81	5/8-11 X 1-3/4 HEX BOLT GR.5	4
17	SS-1508	5/8" MEDIUM LOCKWASHER	8
18	SS-1529	5/8" FLAT WASHER	4
19	MH-9078 MH-9079 MH-9080 MH-9081 MH-9083 MH-9083 MH-9085 MH-9086 MH-9087	MOTOR HARNESS G20-25-200V, G30-200V MOTOR HARNESS G20-230V MOTOR HARNESS G20-460V MOTOR HARNESS G20-460V MOTOR HARNESS G20-25-575V MOTOR HARNESS G25-230V, G30-200V MOTOR HARNESS G35-460V MOTOR HARNESS G30-460V MOTOR HARNESS G30-575V MTR HARN. G25VSD-200V, G25-30VSD-230V MTR HARNESS G25-30VSD-460V MOTOR HARNESS G25-30VSD-460V MOTOR HARNESS G25-30VSD-575V	1
20	DSC-001142	M16-2.0 X 30MM GR12.9 SHCS	4
21	DSC-001110	AIR END PLATE	1
22	SS-33	3/8-16" X 4" HHCS	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
23	SS-1502	3/8" LOCKWASHER	2
24	SS-657	3/8-16 HEX NUT	2
25	DSC-001111	AIR END MOUNTING BAR	2
26	DSC-614	SHAFT KEY G-SERIES AIR END	1
27	DSC-001186	AIR END G-SERIES	1
28	MO-9300 MO-9301 MO-9302 MO-9267 MO-9268 MO-9270 MO-9271 MO-9271	MOTOR 20HP 200/60/3 MOTOR 20HP 230-460/60/3 MOTOR 20HP 575/60/3 MOTOR 25HP 200/60/3 MOTOR 25HP 230-460/60/3 MOTOR 25HP 575/60/3 MOTOR 30HP 200/60/3 MOTOR 30HP 230-460/60/3 MOTOR 30HP 2575/60/3	1
29	DSC-002895	MOTOR ISOLATOR STUD	2
30	SS-50	1/2-13 x 1.5" HHCS	2
31	DSC-657 DSC-001151	FAN & BUSHING ASSEMBLY G20 FAN & BUSHING ASSEMBLY G25-30	1
32	SS-11	5/16-18 X 1/2 HHCS	4
33	DSC-002930	FAN SHROUD	1
34	DSC-002255	FAN SHROUD GASKET	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DSC-001961	G-SERIES AIR FILTER	1
2	DSC-001962	G-SERIES INTAKE FILTER CLAMP	1
3	DSC-001965	G-SERIES INTAKE VALVE COLLAR	1
4	SS-10114	M10 X 30MM HHCS	4
5	SS-1525	3/8" FLAT WASHER	7
6	DSC-001960	G-SERIES INTAKE VALVE	1
7	DSC-002044	O-RING AIR END-INTAKE VALVE	1
8	DSC-001186	AIR END G-SERIES	1
9	DSC-200	BONDED WASHER 1/2" BSPP	1
10	DSC-001214	ADAPTER 1/2"BSPP - JIC 8	1
11	DSC-001907	OIL SIGHT GLASS 3/4" BSPP	1
12	DSC-002259	COPPER WASHER 3/4"BSPP WD	1
13	DSC-618	OIL FILL PLUG 3/4" BSPP	1
14	DSC-120	BONDED WASHER 3/4" BSPP	6
15	DSC-001393-2	AIR/OIL RECEIVER G-SERIES II	1
16	DSC-001146	G20-30 FLEXI HOSE GASKET	2
17	R-8504	PE TUBING 1/2" OD	1
18	DD-00091	3/8"NPT X 1/2"DIA PNEU. FITTING	1
19	DSC-002828	BALL VALVE 3/8" NPTF X 3/8" NPTF	1
20	DSC-002826	ADAPTER 3/8"NPT(M) - 3/8"NPT(M)	1
21	DSC-244	M12 HC LOCKWASHER	8
22	DSC-294	M12-1.75 X 30 SHCS	8
23	DSC-001330	VIBRATION ISOLATOR	3
24	SS-1502	3/8" LOCKWASHER	3
25	SS-657	3/8-16 HEX NUT	3
26	DSC-002880	FLEXI-HOSE G-SERIES II	1
27	DSC-002884	3/4 STEEL TUBE OIL FROM COOLER	1
28	DSC-002887	3/4 STEEL AIR OUT	1
29	DSC-124	ADAPTER 1-1/4"BSPP(M) - JIC 12	1
30	DSC-002724	O-RING C-SERIES THERMOVALVE INLET	1
31	DSC-002882	O-RING G-SERIES A/O INLET	1
32	DSC-122	BONDED WASHER 1-1/4"BSPP	1
33	DSC-121	ADAPTER R3/4" - JIC12	4
34	SS-01926	3/8-16 X 1-3/4 SHCS	4
35	DSC-624	OIL FILTER	1
36	DSC-002881	MANIFOLD ASSEMBLY G-SERIES II	1
37	DSC-628	MANIFOLD SCAVENGE LINE O-RING	1
38	DSC-288	MANIFOLD ASSEMBLY O-RING	1
39	DSC-567	ADAPTER R3/4" - JIC8	1
40	DSC-002886	1/2 STEEL TUBE OIL RETURN	1
41	DSC-001667	COPPER SEALING RING 1/8"BSPP	2
42	DSC-001235	G20-30 SEPARATOR TUBE	1
43	DSC-001148	AIR/OIL SEPARATOR FILTER	1
44	DSC-002883	3/4 STEEL TUBE OIL TO COOLER	1
45	DSC-001150	HEAT EXCHANGER	1
46	SS-725	5/16" HEX NUT	6
47	SS-1503	5/16" LOCKWASHER	6
48	SS-1524	5/16" FLAT WASHER	12
49	SS-159	5/16-18 X 3.75" HHCS	6
50	DSC-002151	ADAPTER 1"NPT(M) - JIC 12	2
51	DSC-002131	3/4 STEEL TUBE DRYER INLET	1
· ·	200 002000	S, STELL TODE DITTERMENT	1



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REV.	DATE	REVISION DESCRIPTION	PCN NO.	
				-

7		NAME OF	DESCRIPTION OF DRAWING				
	G20-3	BOII SCREW	SYSTEM COMPONENTS				
					DRAWING NO.	SHT NO	REV.
	DRAWN BY	CHECKED BY	DATE	SCALE	000 000		
	LT		2/17/17	N.T.S	G20-3011	D2	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DSC-001186	AIR END G-SERIES	1
2	DSC-001960	G-SERIES INTAKE VALVE	1
3	DSC-381	PNEUMATIC TUBE BLACK 8MM OD	2
4	DSC-002209	INTAKE VALVE CONTROL BLOCK	1
5	DSC-376	PNEUMATIC ELBOW 1/8"BSPP X 8MM	1
6	DSC-002052	SOLENDOID G-SERIES N.C.	1
7	DSC-002872	SOLENOID CABLE G-SERIES	1
8	DSC-263	1/8" BONDED WASHER	1
9	DSC-677	ORIFICE 1MM	1
10	DSC-185	PNEUMATIC ELBOW 1/8"BSPP X 6MM	1
11	DSC-001217	BONDED WASHER 1/4" BSPP	2
12	DSC-001238	TEMPERATURE SENSOR CSC200300	1

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REV. DATE

REVISION DESCRIPTION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
13	DSC-110	PNEUMATIC TEE 1/4"BSPP X 8MM	1
14	DSC-712	THERMO VALVE CAP	1
15	DSC-711	THERMO VALVE CAP O-RING	1
16	DSC-120	BONDED WASHER 3/4" BSPP	3
17	DSC-567	ADAPTER R3/4" - JIC8	1
18	DSC-001564	ADAPTER 1/4"BSPPM - 1/4"NPTF	1
19	TIA-5165	SAFETY VALVE 1/4" 165 PSI	1
20	DSC-158	PNEUMATIC ELBOW 1/4"BSPP X 6MM	1
21	DSC-427	BONDED WASHER 3/8"	2
22	DSC-278	ADAPTER 3/8"BSPM X 1/4"BSPF	2
23	DSC-377	PNEUMATIC ELBOW 1/4"BSPP X 8MM	1
24	DSC-382	PNEUMATIC TUBE NATURAL 6MM OD	2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
25	DSC-002872	SOLENOID CABLE ASSEMBLY G	1
26	DSC-001237	PRESSURE TRANSDUCER CSC200300	1
27	DSC-175	PNEUMATIC STRAIGHT 1/8" X 6MM	2
28	DSC-001358	CHECK VALVE 1/8"NPT(F)	1
29	DSC-612	INLINE FILTER	1
30	DSC-002881	MANIFOLD ASSEMBLY G-SERIES II	1
31	DSC-002717	PLUG 3/8" BSPP	1

PNEUMATIC COMPONENTS

SHT NO REV.

D3

DRAWING NO.

G20-30II

G20-30II SCREW COMPRESSOR

DRAWN BY CHECKED BY

SYSTEMS

PCN NO.

DATE

2/10/17

SCALE

N.T.S

