

RECEIVER-MOUNTED SIMPLEX AND DUPLEX PACKAGES OR MULTIPLE PUMP MODULAR SYSTEMS.



CLEAN COMPRESSED AIR FOR:

- LABORATORY
- PHARMACEUTICAL
- MEDICAL
- DENTAL
- VETERINARY
- FOOD PROCESSING/PACKAGING
- AIR BURST SYSTEMS
- CHEMICAL PROCESSING
- ELECTRONIC MANUFACTURING
- INSTRUMENTATION
- CLIMATE CONTROL
- N2 GENERATION
- SOIL REMEDIATION
- AND MORE



BASIC PUMPS



SIMPLEX PACKAGES



MULTIPLE PUMP SYSTEMS



# COMPRESSOR PUMP FEATURES

## SINGLE STAGE MODELS



SD-203

SD-205

SD-307/310

SD-415



- 1) Clean air output with no oil contamination.
- 2) Self lubricating, anti-friction material used for piston guide and compression rings.
- 3) High density aluminum alloy piston for improved heat dissipation.
- 4) Aluminum alloy cylinders with deep finned construction for optimum heat dissipation.
- 5) High precision sealed bearings with high performance grease for continuous heavy load operation.
- 6) Robust cast iron crankcases with high flow breathers to eliminate heat and pressure loading in the frames.
- 7) High flow air foil-type cooling air fan mounted on the pump flywheel, to provide cooling air across the cylinders and frame.
- 8) Cylinder tube manifolds are finned for cooling of discharge air flow.
- 9) One piece connecting rod and sealed bearing for long trouble-free service.
- 10) Large air-cooled intercooler on 2-stage models.

## 2 STAGE MODELS

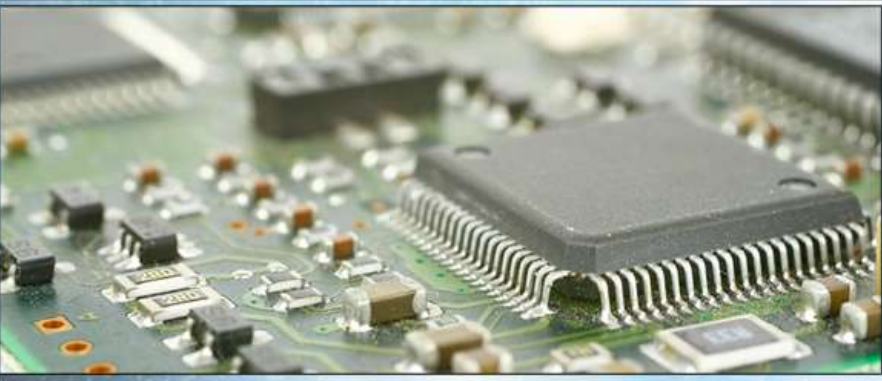


HDP-205

HDP-310

HDP-415

HD-420-425





# "APPL" OIL-LESS AIR COMPRESSOR SPECIFICATIONS

## SINGLE STAGE PUMPS (OPERATING PRESSURE TO 120 PSIG)



## SIMPLEX COMPRESSOR PACKAGES INCLUDE:

- 1) Motor with slide base and vee belt drive.
- 2) Air receiver (ASME code) and CRN & National Board Registered.
- 3) Air pressure switch, receiver safety valve, pressure gauge, discharge, check valve, air service valve and receiver drain valve.
- 4) Optional items include vee-belt guard, air-cooled after cooler, receiver auto drain valve, motor starter, vibration isolation mounts, flexible connectors, and more.

## SIMPLEX MODELS - SINGLE STAGE

COMPRESSOR MODEL	H.P.	RECEIVER SIZE U.S. GAL	CYLINDER SIZE - MM		NO. OF CYL.	PUMP SPEED RPM	PISTON DISPL. CFM	FREE AIR DELIVERY @ 100 PSIG	OVERALL DIMENSIONS HORIZONTAL RECEIVERS - IN.		
			BORE	STROKE					L	W	H
SD-203/3-R60	3	60	82	55	2	700	15.4	10	54	23	43
SD-205/5-R80	5	80	95	70	2	700	24.5	17.1	69	23	43
SD-307/7.5-R120	7.5	120	95	70	3	700	36.8	25.7	74	28	59
SD-310/10-R120	10	120	95	70	3	850	44.7	31.2	74	28	59
SD-415/15-R240	15	240	95	70	4	950	66.6	46.5	90	36	68
SD-420/20-R240	20	240	130	88	4	650	107	64	90	42	72
SD-425/25-R240	25	240	130	88	4	820	135	81	90	42	72

## DUPLEX MODELS - SINGLE STAGE

COMPRESSOR MODEL	H.P.	RECEIVER SIZE U.S. GAL	CYLINDER SIZE - MM		NO. OF CYL.	PUMP SPEED RPM	TOTAL PISTON DISPL. CFM	FREE AIR DELIVERY @ 100 PSIG	OVERALL DIMENSIONS HORIZONTAL RECEIVERS - IN.		
			BORE	STROKE					L	W	H
SD-203/3X2-R120G	6	120	82	55	2	700	30.8	20	75	40	66
SD-205/5X2-R120G	10	120	95	70	2	700	49	34.2	75	40	66
SD-307/7.5X2-R240G	15	240	95	70	3	700	73.6	51.4	90	51	70
SD-310/10X2-R240G	20	240	95	70	3	850	89.4	62.4	90	51	70
SD-415/15X2-R240G	30	240	95	70	4	950	133.2	93	90	51	70
SD-420/20x2-V240	40	240	130	88	4	650	214	128	SPECIAL ARRANGEMENT		
SD-425/25x2-V240	50	240	130	88	4	820	270	162	SPECIAL ARRANGEMENT		

\*40 & 50 HP systems are base mount and will be used with a remote receiver. Drawings will be supplied for arrangement of compressors to suit user's floor space.

## MULTIPLE COMPRESSOR FEATURES:

- 1) All duplex models use grasshopper-style air receivers so pump and motor weight is not supported by receiver vessel.
- 2) Compressor/motor sub-bases are mounted on spring type vibration isolators for smooth, low noise level operation.
- 3) Belt guard mounted air-cooled aftercoolers are recommended for cooling and condensate removal. This will be a requirement if an air dryer is to be used down stream of the compressor package. Connections to aftercoolers are made through stainless steel braided flexible connectors to eliminate connection stress due to vibration.
- 4) An air receiver electronic timed auto drain is recommended for automatic discharging of receiver condensate.
- 5) Control panels can be custom designed to suit service. APPL designs and assembles control panels in-house and can provide relay based control or PLC control functions and alarms to provide the best control system for your facility.





# "APPL" OIL-LESS AIR COMPRESSOR SPECIFICATIONS

## SIMPLEX MODELS - 2-STAGE (MAXIMUM OPERATING PRESSURE 175 PSIG)

COMPRESSOR MODEL	H.P.	RECEIVER SIZE U.S. GAL	CYLINDER SIZE - MM		NO. OF CYL	PUMP SPEED RPM	TOTAL PISTON DISPL. CFM	FREE AIR DELIVERY @ 170 PSIG	OVERALL DIMENSIONS HORIZONTAL RECEIVERS - INCHES		
			BORE	STROKE					L	W	H
HDP-205/5-R80	5	80	95 & 82	70	2	980	17.6	13.7	69	23	43
HDP-307/7.5-R120	7.5	120	95 & 82	70	3	800	28	22.4	74	28	59
HDP-310/10-R120	10	120	95 & 82	70	3	1050	36.8	29.4	74	28	59
HDP-415/15-R240	15	240	95 & 82	70	4	1050	55.2	44.1	90	36	68
HD-420/20-R240	20	240	130 & 110	88	4	650	80.5	54	90	42	72
HD-425/25-R240	25	240	130 & 110	88	4	820	102	68	90	42	72

## DUPLEX MODELS - 2-STAGE (MAXIMUM OPERATING PRESSURE 175 PSIG)

COMPRESSOR MODEL	H.P.	RECEIVER SIZE U.S. GAL	CYLINDER SIZE - MM		NO. OF CYL	PUMP SPEED RPM	TOTAL PISTON DISPL. CFM	FREE AIR DELIVERY @ 170 PSIG	OVERALL DIMENSIONS HORIZONTAL RECEIVERS - INCHES		
			BORE	STROKE					L	W	H
HDP-205/5X2-R120G	10	120	95 & 82	70	2	980	35.2	27.4	75	40	66
HDP-307/7.5X2-R240G	15	240	95 & 82	70	3	800	56	44.8	90	51	70
HDP-310/10X2-R240G	20	240	95 & 82	70	3	1050	73.6	58.8	90	51	70
HDP-415/15X2-R240G	30	240	95 & 82	70	4	1050	110.4	88.2	90	51	70
HD-420/40-V240	40	240	130 & 110	88	4	650	161	108	SPECIAL ARRANGEMENT		
HD-425/50-V240	50	240	130 & 110	88	4	820	204	136	SPECIAL ARRANGEMENT		

\* 40 & 50 HP systems are base mount and will be used with a remote receiver. Drawings will be supplied for arrangement of compressors to suit user's floor space.

## CABINET ENCLOSED MODELS – SOUND ATTENUATED



The Swan cabinet enclosed compressors offer an attractive package which is complete with all electrical controls including magnetic motor starter, air pressure switch, air-cooled aftercooler, surge receiver with auto drain, and vibration isolation. The packages are modified by APPL, and special inspection approved for electrical compliance with the Canadian Electrical Code, and suitable for legal use in all Canadian provinces. These quiet units can be supplied with either single stage or 2-stage pumps. Refer to the foregoing tables for performance specifications. The noise levels and package dimensions are as follows.

MODEL	NOISE LEVEL	WEIGHT-LBS	DIMENSIONS - INCHES
SDU-203C-1	60 dBA	430	33.5 X 28.75 X 41.75
SDU-205C-1	68 dBA	463	33.5 X 28.75 X 41.75
SDU-310C-1	67 dBA	640	37.8 X 32.7 X 50.4
SDU-415C-1	75 dBA	728	39.4 X 38.2 X 50