

M45 Screw Compressor

Technical Specifications

COMPRESSOR

Gardner Denver / Tamrotor Enduro 6 Rotary Screw Compressor, with Adaptable Compressor Speed, designed to produce more gas flow per bhp.

ENGINE

Ford 300, 6 cylinder natural gas engine. Net compression horsepower at site: 48 bhp @ 1800 rpm.

FUEL GAS SCRUBBER

4" dia x 30"h - Provides clean, dry gas for engine consumption. In-line design enables liquids to automatically drain to discharge line.

GAS AFTER COOLER / OIL COOLER

Oil cooler / gas after-cooler, cools discharge gas to within 15°C of ambient temperature.

SUCTION SCRUBBER WITH BLOW CASE

8" dia x 48 "h vertical separator. Designed with automatic drain tank / blow case feature to collect and automatically unload inlet liquids into discharge line.

DISCHARGE OIL/GAS SEPARATOR

12" dia x 48"h with coalescing element.

WALK-IN BUILDING WITH SOUND ATTENUATED WALLS

7.5' x 11.5' walk-in style building with thermal acoustic insulation and perforated aluminium wall liner. Designed to provide superior sound attenuation.

CONTROL PANEL

Murphy Panel, Class I, Div II, w/ extensive monitoring & shutdowns to ensure safe and reliable operation.

M45 Screw Compressor

Flow Rates

Inlet Pressure	Discharge Pressure					
	75 PSIG	100 PSIG	125 PSIG	150 PSIG	200 PSIG	250 PSIG
0 PSIG	4.8 e ³ m ³ /d	4.8 e ³ m ³ /d	4.6 e ³ m ³ /d	4.0 e ³ m ³ /d	3.7 e ³ m ³ /d	
5 PSIG	6.1 e ³ m ³ /d	5.7 e ³ m ³ /d	5.7 e ³ m ³ /d	5.6 e ³ m ³ /d	5.2 e ³ m ³ /d	4.9 e ³ m ³ /d
10 PSIG	7.4 e ³ m ³ /d	7.3 e ³ m ³ /d	7.3 e ³ m ³ /d	7.2 e ³ m ³ /d	6.8 e ³ m ³ /d	6.3 e ³ m ³ /d
20 PSIG	10.6 e ³ m ³ /d	10.5 e ³ m ³ /d	10.5 e ³ m ³ /d	10.4 e ³ m ³ /d	8.9 e ³ m ³ /d	7.9 e ³ m ³ /d
30 PSIG		13.8 e ³ m ³ /d	13.7 e ³ m ³ /d	12.0 e ³ m ³ /d	10.3 e ³ m ³ /d	9.4 e ³ m ³ /d
40 PSIG		17.0 e ³ m ³ /d	15.9 e ³ m ³ /d	14.0 e ³ m ³ /d	11.5 e ³ m ³ /d	10.5 e ³ m ³ /d
50 PSIG		20.2 e ³ m ³ /d	19.0 e ³ m ³ /d	16.7 e ³ m ³ /d	13.7 e ³ m ³ /d	11.6 e ³ m ³ /d


EUB - Emissions Data

ENGINE DATA

Engine Make & Model	Ford 300 (4.9l)
Engine Speed	1800 rpm
Engine HP @ 2500 Ft Altitude	56 bhp @ 1800 rpm
NO _x Emissions	63.7 grams/hp-hr 4,332 grams/hr @ full load
CO ₂ Emissions	13,760 grams/hp-hr 935,680 grams/hr @ full load
Fuel Gas Consumption	11 mscf/day

M45 Screw Compressor

EUB - Noise Data

Standard Package		 <small>NOISE REDUCTION SYSTEM</small>	
SILENCER DATA		SILENCER DATA	
Make & Model	Excel Model EXHD-3	Make & Model	Silex Model JE-3.0
Grade	Hospital	Grade	Super Hospital Plus
dBa Attenuation	38-42 dBa	dBa Attenuation	40-55 dBa
SOUND DATA		SOUND DATA	
Distance From Unit	dBa	Distance From Unit	dBa
50m	61	50m	41
100m	55	100m	36
200m	47	200m	31
300m	40	300m	25
400m	36	400m	22
500m	32	500m	18
600m	30	600m	16
800m	25	800m	12
1000m	21	1000m	9

Note: These are predicted sound pressure levels based on open field test. Actual sound pressure level may vary depending on site and installation conditions.

M70 Screw Compressor

Technical Specifications

COMPRESSOR

Gardner Denver / Tamrotor Enduro 12 Rotary Screw Compressor, with Adaptable Compressor Speed, designed to produce more gas flow per bhp.

ENGINE

Cummins G5.9, 6 cylinder natural gas engine. Net compression horsepower at site: 70 bhp @ 1800 rpm.

FUEL GAS SCRUBBER

4" dia x 30"h - Provides clean, dry gas for engine consumption. In-line design enables liquids to automatically drain to discharge line.

GAS AFTER COOLER / OIL COOLER

Oil cooler / gas after-cooler, cools discharge gas to within 15°C of ambient temperature.

SUCTION SCRUBBER WITH BLOW CASE

12" dia x 48" h vertical separator. Designed with automatic drain tank / blow case feature to collect and automatically unload inlet liquids into discharge line.

DISCHARGE OIL/GAS SEPARATOR

16" dia x 40"h with coalescing element.

WALK-IN BUILDING WITH SOUND ATTENUATED WALLS

8' x 13' walk-in style building with thermal acoustic insulation and perforated aluminium wall liner. Designed to provide superior sound attenuation.

CONTROL PANEL

Murphy Panel, Class I, Div II, w/ extensive monitoring & shutdowns to ensure safe and reliable operation.

M70 Screw Compressor

Flow Rates

Inlet Pressure	Discharge Pressure					
	75 PSIG	100 PSIG	125 PSIG	150 PSIG	200 PSIG	250 PSIG
0 PSIG	7.9 e ³ m ³ /d	7.8 e ³ m ³ /d	7.8 e ³ m ³ /d	7.7 e ³ m ³ /d	7.0 e ³ m ³ /d	
5 PSIG	10.9 e ³ m ³ /d	10.8 e ³ m ³ /d	10.8 e ³ m ³ /d	10.7 e ³ m ³ /d	10.0 e ³ m ³ /d	8.7 e ³ m ³ /d
10 PSIG	14.0 e ³ m ³ /d	13.9 e ³ m ³ /d	13.8 e ³ m ³ /d	13.4 e ³ m ³ /d	11.7 e ³ m ³ /d	10.7 e ³ m ³ /d
20 PSIG	20.0 e ³ m ³ /d	19.9 e ³ m ³ /d	17.8 e ³ m ³ /d	16.2 e ³ m ³ /d	13.9 e ³ m ³ /d	13.5 e ³ m ³ /d
30 PSIG	26.1 e ³ m ³ /d	26.1 e ³ m ³ /d	22.1 e ³ m ³ /d	18.4 e ³ m ³ /d	16.2 e ³ m ³ /d	15.0 e ³ m ³ /d
40 PSIG		28.7 e ³ m ³ /d	26.2 e ³ m ³ /d	22.7 e ³ m ³ /d	18.1 e ³ m ³ /d	16.5 e ³ m ³ /d
50 PSIG			31.3 e ³ m ³ /d	27.0 e ³ m ³ /d	21.6 e ³ m ³ /d	18.1 e ³ m ³ /d


EUB - Emissions Data

ENGINE DATA

Engine Make & Model	Cummins G5.9
Engine Speed	1800 rpm
Engine HP @ 2500 Ft Altitude	78 bhp
NO _x Emissions	11.41 grams/hp-hr 890 grams/hr @ full load
CO ₂ Emissions	449 grams/hp-hr 35,022 grams/hr @ full load
Fuel Gas Consumption	15 mscf/day

M70 Screw Compressor

EUB - Noise Data

Standard Package		 <small>NOISE REDUCTION SYSTEM</small>	
SILENCER DATA		SILENCER DATA	
Make & Model	Excel Model EXHD-3.5	Make & Model	Noise Solutions Zeron Model 1000
Grade	Hospital	Grade	Super Hospital Plus
dBa Attenuation	38-42 dBa	dBa Attenuation	35-55 dBa
SOUND DATA		SOUND DATA	
Distance From Unit	dBa	Distance From Unit	dBa
50m	60	50m	44
100m	54	100m	39
200m	49	200m	32
300m	45	300m	28
400m	42	400m	25
500m	38	500m	22
600m	35	600m	19
800m	30	800m	15
1000m	25	1000m	12

Note: These are predicted sound pressure levels based on open field test. Actual sound pressure level may vary depending on site and installation conditions.

M99 Screw Compressor

Technical Specifications

COMPRESSOR

Gardner Denver / Tamrotor Enduro 25 Rotary Screw Compressor, with Adaptable Compressor Speed, designed to produce more gas flow per bhp.

ENGINE

Cummins G8.3, 6 cylinder natural gas engine. Net compression horsepower at site: 90 bhp @ 1800 rpm.

FUEL GAS SCRUBBER

4" dia x 30"h - Provides clean, dry gas for engine consumption. In-line design enables liquids to automatically drain to discharge line.

GAS AFTER COOLER / OIL COOLER

Oil cooler / gas after-cooler, cools discharge gas to within 15°C of ambient temperature.

SUCTION SCRUBBER WITH BLOW CASE

16" dia x 65" h vertical separator. Designed with automatic drain tank / blow case feature to collect and automatically unload inlet liquids into discharge line.

DISCHARGE OIL/GAS SEPARATOR

20" dia x 60"h with coalescing element.

WALK-IN BUILDING WITH SOUND ATTENUATED WALLS

9' x 15' walk-in style building with thermal acoustic insulation and perforated aluminium wall liner. Designed to provide superior sound attenuation.

CONTROL PANEL

Murphy Panel, Class I, Div II, w/ extensive monitoring & shutdowns to ensure safe and reliable operation.

M99 Screw Compressor

Flow Rates

Inlet Pressure	Discharge Pressure					High Pressure Unit	
	100 PSIG	125 PSIG	150 PSIG	200 PSIG	250 PSIG	300 PSIG	350 PSIG
0 PSIG	14.4 e ³ m ³ /d	13.5 e ³ m ³ /d	12.0 e ³ m ³ /d	9.7 e ³ m ³ /d			
5 PSIG	18.1 e ³ m ³ /d	17.0 e ³ m ³ /d	15.6 e ³ m ³ /d	13.1 e ³ m ³ /d	11.1 e ³ m ³ /d		
10 PSIG	22.1 e ³ m ³ /d	19.0 e ³ m ³ /d	18.1 e ³ m ³ /d	15.6 e ³ m ³ /d	13.7 e ³ m ³ /d	9.1 e ³ m ³ /d	7.9 e ³ m ³ /d
20 PSIG	27.5 e ³ m ³ /d	25.0 e ³ m ³ /d	22.5 e ³ m ³ /d	19.3 e ³ m ³ /d	17.0 e ³ m ³ /d	12.5 e ³ m ³ /d	10.1 e ³ m ³ /d
30 PSIG	34.3 e ³ m ³ /d	32.7 e ³ m ³ /d	28.2 e ³ m ³ /d	23.1 e ³ m ³ /d	19.4 e ³ m ³ /d	14.2 e ³ m ³ /d	13.7 e ³ m ³ /d
40 PSIG		38.5 e ³ m ³ /d	34.3 e ³ m ³ /d	26.1 e ³ m ³ /d	22.7 e ³ m ³ /d	17.8 e ³ m ³ /d	14.8 e ³ m ³ /d
50 PSIG		41.9 e ³ m ³ /d	40.6 e ³ m ³ /d	31.2 e ³ m ³ /d	25.7 e ³ m ³ /d	19.4 e ³ m ³ /d	18.0 e ³ m ³ /d
60 PSIG						21.7 e ³ m ³ /d	20.1 e ³ m ³ /d
70 PSIG						26.1 e ³ m ³ /d	21.9 e ³ m ³ /d
80 PSIG						28.3 e ³ m ³ /d	24.8 e ³ m ³ /d
90 PSIG						31.2 e ³ m ³ /d	27.7 e ³ m ³ /d


EUB - Emissions Data

ENGINE DATA

Engine Make & Model	Cummins G8.3
Engine Speed	1800 rpm
Engine HP @ 2500 Ft Altitude	93 bhp
NO _x Emissions	19.1 grams/hp-hr = 1776 grams/hr @ full load
CO ₂ Emissions	459 grams/hp-hr = 42,687 grams/hr @ full load
Fuel Gas Consumption	19 mscf/day

M99 Screw Compressor

EUB - Noise Data

Standard Package		 <small>NOISE REDUCTION SYSTEM</small>	
SILENCER DATA		SILENCER DATA	
Make & Model	Excel Model EXHD-3.5	Make & Model	Noise Solutions Zeron Model 1000
Grade	Hospital	Grade	Super Hospital Plus
dBa Attenuation	38-42 dBa	dBa Attenuation	35-55 dBa
SOUND DATA		SOUND DATA	
Distance From Unit	dBa	Distance From Unit	dBa
50m	62	50m	51
100m	56	100m	45
200m	48	200m	37
300m	43	300m	32
400m	38	400m	28
500m	34	500m	25
600m	31	600m	21
800m	27	800m	19
1000m	23	1000m	13

Note: These are predicted sound pressure levels based on open field test. Actual sound pressure level may vary depending on site and installation conditions.

M188 Screw Compressor

Technical Specifications

COMPRESSOR

LeRoi/Sullair G17/PDH12 Rotary Screw Compressor, with Adaptable Compressor Speed, designed to produce more gas flow per bhp.

ENGINE

Cummins G855 (14l), 6 cylinder natural gas engine. Net compression horsepower at site: 188 bhp @ 1800 rpm.

FUEL GAS SCRUBBER

4" dia x 30"h - Provides clean, dry gas for engine consumption. In-line design enables liquids to automatically drain to discharge line.

GAS AFTER COOLER / OIL COOLER

Oil cooler / gas after-cooler, cools discharge gas to within 15°C of ambient temperature.

SUCTION SCRUBBER WITH BLOW CASE

24" dia x 72" h vertical separator. Designed with automatic drain tank / blow case feature to collect and automatically unload inlet liquids into discharge line.

DISCHARGE OIL/GAS SEPARATOR

20" dia x 72" h with coalescing element.

WALK-IN BUILDING WITH SOUND ATTENUATED WALLS

10' x 17' walk-in style building with thermal acoustic insulation and perforated aluminium wall liner. Designed to provide superior sound attenuation.

CONTROL PANEL

Murphy Panel, Class I, Div II, w/ extensive monitoring & shutdowns to ensure safe and reliable operation.

M188 Screw Compressor

Flow Rates

Inlet Pressure	Discharge Pressure						
	100 PSIG	125 PSIG	150 PSIG	200 PSIG	250 PSIG	300 PSIG	350 PSIG
0 PSIG	26.6 e ³ m ³ /d	21.9 e ³ m ³ /d	20.2 e ³ m ³ /d	15.8 e ³ m ³ /d	12.1 e ³ m ³ /d		
5 PSIG	31.1 e ³ m ³ /d	28.7 e ³ m ³ /d	24.9 e ³ m ³ /d	20.2 e ³ m ³ /d	14.9 e ³ m ³ /d		
10 PSIG	38.9 e ³ m ³ /d	32.6 e ³ m ³ /d	31.5 e ³ m ³ /d	22.5 e ³ m ³ /d	19.3 e ³ m ³ /d	15.4 e ³ m ³ /d	
20 PSIG	53.2 e ³ m ³ /d	42.2 e ³ m ³ /d	38.6 e ³ m ³ /d	28.9 e ³ m ³ /d	24.3 e ³ m ³ /d	23.1 e ³ m ³ /d	20.4 e ³ m ³ /d
30 PSIG	66.2 e ³ m ³ /d	52.8 e ³ m ³ /d	45.9 e ³ m ³ /d	37.9 e ³ m ³ /d	31.5 e ³ m ³ /d	28.1 e ³ m ³ /d	23.9 e ³ m ³ /d
40 PSIG	88.1 e ³ m ³ /d	66.1 e ³ m ³ /d	57.4 e ³ m ³ /d	42.0 e ³ m ³ /d	35.9 e ³ m ³ /d	30.7 e ³ m ³ /d	27.8 e ³ m ³ /d
50 PSIG		84.4 e ³ m ³ /d	69.3 e ³ m ³ /d	49.0 e ³ m ³ /d	43.1 e ³ m ³ /d	36.9 e ³ m ³ /d	33.5 e ³ m ³ /d
60 PSIG				57.6 e ³ m ³ /d	49.3 e ³ m ³ /d	41.9 e ³ m ³ /d	37.2 e ³ m ³ /d
70 PSIG				65.2 e ³ m ³ /d	55.8 e ³ m ³ /d	45.9 e ³ m ³ /d	40.4 e ³ m ³ /d
80 PSIG				72.5 e ³ m ³ /d	61.6 e ³ m ³ /d	51.7 e ³ m ³ /d	44.1 e ³ m ³ /d
90 PSIG				82.2 e ³ m ³ /d	68.6 e ³ m ³ /d	57.6 e ³ m ³ /d	48.6 e ³ m ³ /d


EUB - Emissions Data

ENGINE DATA

Engine Make & Model	Cummins G855 (14l)
Engine Speed	1800 rpm
Engine HP @ 2500 Ft Altitude	188 bhp
NO _x Emissions	5.9 grams/hp-hr 1,033 grams/hr @ full load
CO ₂ Emissions	423 grams/hp-hr 74,025 grams/hr @ full load
Fuel Gas Consumption	38,000 scfd @ full load

M188 Screw Compressor

EUB - Noise Data

Standard Package		 <small>NOISE REDUCTION SYSTEM</small>	
SILENCER DATA		SILENCER DATA	
Make & Model	Excel Model EXHD 5-4F-S	Make & Model	Excel Model EXHD 5-4F-S
Grade	Hospital	Grade	Hospital Plus
dBa Attenuation	40 dBa	dBa Attenuation	40 dBa
SOUND DATA		SOUND DATA	
Distance From Unit	dBa	Distance From Unit	dBa
50m	n/a	50m	57
100m	n/a	100m	51
200m	58	200m	45
300m	53	300m	40
400m	50	400m	36
500m	48	500m	33
600m	47	600m	30
800m	42	800m	25
1000m	38	1000m	22

Note: These are predicted sound pressure levels based on open field test. Actual sound pressure level may vary depending on site and installation conditions.