

# DIS Series

SOUNDPROOF ENGINE-DRIVEN COMPRESSORS



**DIS-130ES** 

Denyo Co., Ltd.

## Series Portable Screw Compressors

#### Low noise level

These small, lightweight compressors are equipped with a unique soundproofing system. The average value of noise at a distance of 7m in any direction is 64-76dB(A) at rated operation.

#### Transportation made easy

These lightweight and compact compressors feature a one-point lifting eye that makes moving the unit at the work site quick and easy. All compressors, including trailer types, are equipped with a lifting eye.

#### Parking brake is standard equipment

All 4-wheel trailer type units are equipped with parking brakes.

#### **High Pressure Type**

The energy produced by this high-pressure compressor is applicable to innovative technologies and new machines.

This type of screw compressors display full performance in a down-the-hole process and a large-diameter boring process and can be applied to ground-improving machines, pneumatic lifts, and concrete-blowing machines. The discharge pressure ranges from 1.03 MPa to 2.4 MPa.

The DIS-1070XS is also equipped with a two-stage discharge pressure selector to meet a wide range of application requirements.

#### **After Cooler Type**

Denyo's high-performance after cooler prevents freezing by extracting moisture from the discharging air, while also eliminating the rust and grime build-up of spattering water. This also keeps the breaker from being overheated by the after cooler.

The compressor's after cooler and oil temperature regulator make it possible to maintain a constant discharge air temperature of no more than 15°C above ambient temperature. When the atmospheric temperature is below 0°C, a discharge pipe-selecting valve in the unit routes warmer air around the after cooler, preventing freezing.

A drain separator eliminates humidity generated in the after cooler by more than 70%, while a pressure-retaining valve guarantees stable elimination of moisture.

#### **Dry Air Type**

These compressors have built-in aftercoolers/warmers, and so they can delivery high-temperature and dry air even if it rains.

They are recommended for use in various work situations such as sand blasting and other operations that require a moisture-free work environment. These compressors are designed to supply high-temperature, dry compressed air, owing to a built-in oil separator, after cooler, drain separator and after-warmer.

One-touch switching will allow the operator to select low-temperature, dry air, or high-temperature, dry air.

#### ESSURE TYPE

#### AFTER COOLER TYPE

#### DRY AIR TYPE













		HIG	H PRES	SURE T	YPE		AFTER	COOLER	TYPE		DRY AL	R TYPE
	TYPE	TRAILER TYPE			BOX TYPE	BOX TYPE				BOX TYPE	TRAILER TYPE	
	MODEL	DIS-600EHS	DIS-765US	DIS-1070XS	DIS-1300UB	DIS-70AC	DIS-90AC2	DIS-130ES-C	DIS-180AC	DIS-390ES-C	DIS-390ES-D	DIS-685ESS-E
COMPRESSOR							1					
Туре					Rotary screw,	single-stage compre	ession, oil cooled (DI	S-1070XS: two-stage	e compression)			
Rated Pressure	MPa (psi)	1.03 (150)	1.27 (185)	2.40(350)/1.27(185)	1.27 (185)	0.69	(100)	0.7 (102)	0.69 (100)	0.7 (102)	0.7	102)
Air Delivery	m³/min (cfm)	17 (600)	21.7 (765)	30.3 (1070)	36.8 (1300)	2.0	2.5	3.7	5.1	11.0	11.0	19.4
Lube Oil Capacity	L	95	75	210	220	10	12	15	19	50	50	105
Air Tank Capacity	m <sup>3</sup>	0.186	0.26	0.33	0.52	0.020	0.025	0.030	0.039	0.10	0.10	0.192
Service Cock	Size x Q'ty	20Ax3, 50Ax1	20Ax2, 50Ax1	20Ax1, 50Ax1	80Ax1		20Ax2		20Ax2, 40Ax1	20Ax3, 50Ax1, 15Ax1*	20Ax3, 50Ax1, 15Ax1*	20Ax3, 50Ax1
ENGINE (4-cycle, water	r-cooled diesel er	ngine)										
Model		Hino J08C-UT	Hino K13C-TJ	Mitsubishi S6B3-PTA	Komatsu SA6D140-1	Kubota D905-KA	Kubota D1005-KA	Yanmar3TNV88-F	Isuzu AA-4LE2	Isuzu DD4BG1T	Isuzu DD4BG1T	Hino J08C-UT
Туре		Direct injected, turbocharged		d, turbocharged	Swirl chambered		ambered ·	Direct injected		Direct injected, turbocharged		rged
No. of Cylinders — Bore x	Stroke mm	6 - 114x118	6 - 135x150	6 - 135x170	6 — 140x165	3 - 72x73.6	3 - 76x73.6	3 - 88x90	4 - 85×96	4 - 105x125	4 — 105x125	6 - 114x130
Displacement	L	7.961	12.882	14.600	15.240	0.898	1.001	1.642	2.179	4.329	4.329	7.961
Rated Output	kW (PS)	138 (188)	220 (300)	342 (465)	327 (445)	16.2 (22)	19.1 (26)	25.8 (35)	36.6 (50)	80.9 (110)	80.9 (110)	134.5 (183)
Rated Revolution	min <sup>-1</sup>	1900	2000	1800	1800	36	600	3000	2600	2400	2400	1800
Fuel						Diesel fu	el (ASTM No. 2 or ed	quivalent)	111			
Fuel Tank Capacity	L	280	400	680	660	28	32	70	90	180	180	280
Fuel Consumption	L/h	21.4/25.8	27.5/35.5	2.40MPa: 50.0/61.0 1.27MPa: 44.2/56.0	53.0/62.2	2.7/3.6	3.3/4.4	3.7/4.8	4.2/6.1	10.2/14.1	10.2/14.1	19.0/23.4
Lube Oil Capacity	L	25.5	67	85	80	5	.1	6.7	8.1	13	13	25.5
Coolant Capacity	Ĺ	25	50	75	142	4.5	6	5.6	7.2	12	12	25
Battery x Quantity		145F51x2	145G51x2	2451	152x2	95D3	31R×1	80D26Rx1	95D31Rx1	80D26x2	80D26x2	145F51x2
DIMENSIONS, WEI	GHT, TRAILE	R & SOUND LE	VEL						'			
Length x Width x Height	mm	3830x1600x2035	4300x1855x2125	5160x2200x2370	4510×1870×2210	1600x755x865	1600×755×895	1700x875x1050	1820x1030x1060	2600×1300×1360 <3010×1520×1760>	2740x1300x1360 <3010x1520x1760>	3950×1600×2035
Dry Weight	kg	3130	4460	6600	7480	450	470	615	820	1570 <1830>	1630 <1890>	3300
Trailer: No. of Tires x Tire	Size	4xF: 6.00-13-8PR R: 6.50-14-8PR	4xF: 6.50-14-8PR R: 7.00-15-12PR	4xF: 7.50-16-12PR R: 7.50-16-8PR	7-					<4xF: 5.00-12-8PR> <r: 6.00-13-8pr=""></r:>	<4xF: 5.00-12-8PR> <r: 6.00-13-8pr=""></r:>	4xF: 6.00-13-8PR R: 6.50-14-8PR
Sound Level	7mdB (A)	70	75	76		64		67			0	69



#### **Emergency shut-off device standard equipment**

If a malfunction occurs, or the oil level in the engine drops too low (DIS-1300UB and 1850SB), the emergency shut-off device will automatically illuminate a warning light and stop the engine.

#### Automatic air bleeder

The DIS series compressors no longer require air bleeding, thanks to the development of an automatic air bleeder and emergency shut-off device.

#### User-friendly operational panel

The control panel on the DIS series compressors has been placed on one end of the unit for easy operation.

#### Easy inspection and maintenance

Compressors are equipped with a large-sized door and single-side access for daily inspection and easy maintenance. Also, the hood is designed for easy disassembly for maintenance and cleaning of the engine radiator, compressor oil cooler, and fuel tank replacement.

Malfu	inction	DIS-55~90	DIS-130~1850	
Compressor	High discharged air temperature	0	0	
	High water temperature	0	0	
	Low lube oil pressure	0	0	
Engine	Discharge battery	0	0	
	Low engine speed	-	0	
	Low residual tank pressure	_	0	

O: Shut-off device -: No device

DIS Series coped with air bleeding	ALLE REEL
Models equipped with automatic air bleeders	DIS-130, 180, 390, 600 685, 800
Models not requiring air bleeders	DIS-55, 70, 90
Models equipped with emergency shut-off devices	DIS-275*, 765*, 1070 1300, 1850

Note: Automatic air bleeder units are available for models marked with (\*).







**DIS - 130ES** 



**DIS - 685ESS** 

### OPTIONAL EQUIPMENT

#### **Innovative Hose Reel**

Denyo has developed a sturdy, lightweight and easily attachable one-touch hose reel which can be mounted on top of compressors. With slight modifications, a single storage reel can be mounted on DIS-55~90 series models, while DIS-130~180 units can accommodate two hose reels. The units can also be stacked for effective storage.



#### Caster and 2-Wheel Trailers

DIS-55~180 compressors can be easily moved around work sites.

#### Remote Control

DIS-685 and larger compressors can be started and stopped by remote control.

#### Fuel Line Switching Device (3-Way Valve)

On DIS-390 and larger units, this device makes it possible to switch from the compressor's built-in tank to a line for an auxiliary tank for long operation, without refueling. Models DIS-600EHS, 685ESS/ESS-D, 800ESS and 1850SB are equipped with this device as standard equipment.



The specifications given herein are subject to change without notice.



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