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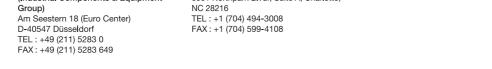
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OIL FREE SCREW

SINGLE STAGE / TWO STAGE





Products described in this catalog may differ from different countries or regions. Contact your nearest Hitachi representative office for details. Product appearances and specifications in this catalog are subject to change with or without notice, as Hitachi continues to develop the latest technologies and products for its customers.

⁽Whitachi Industrial Equipment Systems Co., Ltd.

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Hitachi Social Innovation - Environment Friendly, High Standard Oil-Free Rotary Screw Compressor (DSP)

Since the first Hitachi air compressor (1911), Hitachi has become one of the global leading manufacturers in air compressor. With the concept 'Toward the next 100 years, Contribute to Environment and Energy-Saving', Hitachi commit ourselves to unstoppable effort in technology innovation. With high standard reliability, excellent Energy-Saving and various air solutions, Hitachi will contribute to the industrial growth and development.

Premium Air Quality

True Oil-Free Air at Class 0 Level

Test and analysis of condensation of oil in the discharge air of Hitachi Oil-free Screw Compressor (DSP) are implemented by third party (TÜV) based on ISO8573-1 standard. By the test result, oil contained in the discharge air of Hitachi DSP is proved and certified as the highest level of quality air "Class 0".







Industry Standard in Energy-Saving, Environment Friendly and High Quality - From small to large, Full Line-Up (15-240kW)







OIL FREE SCREW (DSP) Model List

Fixed Speed Type

Model	1	Nominal Output (kW)	15	22	30	37	45	55	75	90	100	120	132	145	160	200	240
		Built-in Dryer	۲	۲		۲		۲									
Single-Stage	Air-Cooled	Without Dryer	۲	۲		۲		۲									
	Water-Cooled	Without Dryer	۲	۲		۲		۲									
	Air-Cooled -	Built-in Dryer		۲	۲	۲	۲	۲	۲								
Two Store		Without Dryer		۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲
Two-Stage		Built-in Dryer					۲	۲	۲								
	water-Cooled	Without Dryer					۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲

V-type (VSD)

Model		Iominal Output (kW)	15	22	30	37	45	55	75	90	100	120	132	145	160	200	240
		Built-in Dryer		۲		۲		۲									
Single-Stage	gle-Stage Air-Cooled Water-Cooled	Without Dryer		۲		۲		۲									
		Without Dryer				۲		۲									
		Built-in Dryer				۲		۲	۲								
Two-Stage	Air-Cooled	Without Dryer				۲		۲	۲		۲						
ino otage	Water-Cooled	Built-in Dryer						۲	۲								
	water-Cooled	Without Dryer						۲	۲		۲				۲		۲

: NEXTII Series

High Performance Air-End

Stainless Steel Rotor

Particular stainless steel, which is superior in corrosion resistance and durability, is applied for rotor with highly accurate grinding. Furthermore, compensated profile, which is optimized for thermal expansion during operation, enables to keep optimal clearance.

High Performance Coating

Patent JP05416072

Hitachi original coating, which can withstand the high temperature of over 300°C, protects the rotors from a decrease in performance (efficiency, air purity, etc.).



Single-Stage, Air-Cooled (15/22/37/55kW) Single-Stage, Water-Cooled (15/22/37/55kw)



*The above picture shows the internal structure of 55kW Air-Cooled model (V-type).

Cut Down Overhaul and Initial Cost

Comparison of cost with the same air capacity level

Because there is only one air-end for DSP Single-Stage model, the initial cost is lower than Two-Stage model. The overhaul cost, which covers the most of maintenance cost, is about 60% of Two-Stage for the same reason.



*Example of Hitachi 55kW (Single-Stage) and 45kW (Two-Stage), Without Dryer model

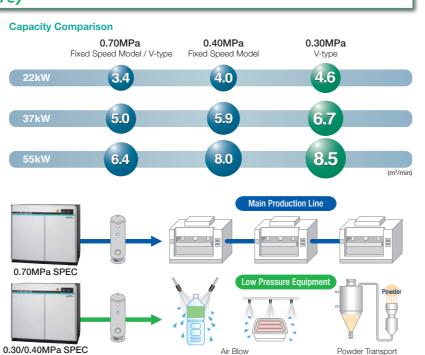
Expanded Line-Up (Low Pressure)

0.30MPa model is newly added

V-type 0.30MPa and Fixed Speed Model 0.40MPa models are abailable for low pressure application to save the energy.

Applications

In case that the pressure requirement is higher than blower but lower than standard compressor SPEC, low pressure SPEC DSP can be your solution.



Specifications

Air-C	ooled, Fixed Speed	Model	(15–55kW)					[]:	Indicates model wi	th Dryer integrated.	
		Model	DSP-15A	[R] 5N2	DSP-22	A[R]5N2	DSP-37	A[R]5N2	DSP-554	[R]5N2	
Item • Unit			DSP-15A	[R] 6N2	DSP-224	A[R]6N2	DSP-37	A[R]6N2	DSP-554	[R]6N2	
Discharge	Pressure	MPa	0.70	0.40	0.70	0.40	0.70	0.40	0.70	0.40	
Discharge	Air Capacity	m³/min	2.0	2.5	3.4	4.0	5.0	5.9	6.4	8.0	
Nominal N	Notor Output	kW	1	5	2	2	3	7	5	5	
Motor Typ	De	—				4-Pole TE	FC Motor				
Intake Air	Pressure / Temperature	0°			At	mospheric Press	ure / 0 – 45 [2 – 4	5]			
Discharge	scharge Temperature +15 or below										
Discharge	Air Pipe Connection	В	B Rc1 Rc1-1/2								
Starting N	lethod	-	Full Volta	ige Start			Star-Delta	(3 contact)			
Driving M	ethod	_				V-Belt+Ge	ear-Driven				
Oil Quant	ty	L		12 (No	ot filled)			18 (No	ot filled)		
Cooling F	an Motor Output	kW	0.	4		0.	65		0	9	
Coolant F	ump Motor Output (50/60Hz)	kW				0.2	/0.3				
	P.D.P	0°	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	
[Dryer]	Refrigerator Nominal Output	kW	[0.5]	-	[1.2]	-	[1.45]	-	[1.45]	-	
	Refrigerant	_	[R407C]	-	[R410A]	-	[R410A]	-	[R410A]	-	
Weight		kg	770 [800]	850 [910]	1,080 [[1,230]	1,330 [1,480]	
Dimensio	ns (W×D×H)	mm		1,400×97	70×1,400		1	,830×980×1,580 [2,230×980×1,580]	
Sound Le	vel (1.5m from front)	dB(A)	62	63	63	64	66	68	68	70	

Air Cooled (Mater Cooled) (type Medel (00, 551))

Air-C	cooled / Water-Coole	d, V-ty	pe Model	(22–55kW	/)					[]: Indicat	es model with D	ryer integrated.
		Model		A[R]5N2		A[R]5N2		A[R]5N2	DSP-37	7VWN2	DSP-55	WWN2
Item • Unit			DSP-22V	'A[R]6N2		A[R]6N2	DSP-55V	A[R]6N2				
Cooling N	lethod				Air-C	ooled				Water-	Cooled	
Discharge	Pressure	MPa	0.70	0.30	0.70	0.30	0.70	0.30	0.70	0.30	0.70	0.30
Discharge	Air Capacity	m³/min	3.4	4.6	5.0	6.7	6.4	8.5	5.0	6.7	6.4	8.5
	Discharge Pressure	MPa	0.60	-	0.60	-	0.60	-	0.60	-	0.60	-
PQ	Discharge Air Capacity	m³/min	3.7	-	5.5	-	7.0	-	5.5	-	7.0	-
WIDEMOI	DE Discharge Pressure	MPa	0.40 [0.50]	-	0.40 [0.50]	-	0.40 [0.50]	-	0.40	-	0.40	-
	Discharge Air Capacity	m³/min	4.3 [4.0]	-	6.4 [6.0]	-	8.2 [7.6]	-	6.4	-	8.2	-
PQ WIDE	MODE Range	MPa	0.40 - 0.70 [0.50 - 0.70]	-	0.40 - 0.70 [0.50 - 0.70]	-	0.40 - 0.70 [0.50 - 0.70]	-	0.40 - 0.70	-	0.40 - 0.70	-
Nominal N	Notor Output	kW	2	2	3	7	5	5	3	7	55	5
Motor Typ	De	-			4-Pole TE	FC Motor				4-Pole TE	FC Motor	
Intake Air	Pressure / Temperature	°C		Atmo	spheric Press	ure / 0 – 45 [2	- 45]		Atmospheric Pressure / 0 – 45			
Discharge	Temperature	°C		Am	bient Tempera	ture +15 or be	elow		Cooling Water Temperature +13 or below			below
Discharge	Air Pipe Connection	В			Rc1	-1/2				Rc1	-1/2	
Starting N	lethod	-			Inve	erter				Inve	erter	
Driving M	ethod	-			V-Belt+Ge	ear-Driven				V-Belt+G	ear-Driven	
Oil Quant	ty	L	12 (No	t filled)		18 (No	ot filled)			14 (No	ot filled)	
Cooling F	an Motor Output	kW		0.	75		0.	.9		0	.2	
Cooling V	/ater Flow Rate	L/min				-				8	80	
Cooling V	/ater Temperature	°C				-				32 or	below	
Cooling V	later Pipe Connection	В			-	-				R	c1	
Coolant P	ump Motor Output (50/60Hz)	kW			0.2	/0.3					-	
[Dryer]	P.D.P	°C	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-			-	
[Diyei]	Refrigerator Nominal Output	kW	[1.2]	-	[1.45]	-	[1.45]	-			_	
	Refrigerant	_	[R410A]	-	[R410A]	-	[R410A]	-			-	
Weight		kg	900 [960]	1,140	1,290]	1,270 [1,420]	1,1	10	1,2	40
Dimensio	ns (W×D×H)	mm	1,650×9	70×1,400	1,830	0×980×1,580	[2,230×980×1,	580]		1,830×9	80×1,580	
Sound Le	vel (1.5m from front)	dB(A)	63	64	66	68	68	70	64	66	64	66

Water-Cooled, Fixed Speed Model (15-55kW)

	Model		5W5N2		22W5N2		7W5N2		5W5N2 5W6N2	
Item•Unit		-	5W6N2	-	22W6N2		7W6N2		1	
Discharge Pressure	MPa	0.70	0.40	0.70	0.40	0.70	0.40	0.70	0.40	
Discharge Air Capacity	m³/min	2.0	2.5	3.4	4.0	5.0	5.9	6.4	8.0	
Nominal Motor Output	kW	1	5		22	3	37	Ę	55	
Motor Type					4-Pole TE	FC Motor				
Intake Air Pressure / Temperature	0°C				Atmospheric P	ressure / 0 – 45				
Discharge Air Temperature	°C	Cooling Water Temperature + 13 or below								
Discharge Air Pipe Diameter	В	Rc1 Rc1-1/2								
Cooling Water Flow Rate	L/min		5	i0			8	0		
Cooling Water Temperature	0°				35 or	below				
Coolant Water Pipe Diameter	В		Rc	3/4			R	c1		
Starting Method	-	Full Volt	age Start			Star-Delta (3-contact)			
Driving Method	-				V-Belt+G	ear-Driven				
Lubricating Oil Quantity	L		10 (No	t filled)			14 (No	t filled)		
Cooling Fan Motor Output	kW	0.05 0.1								
Weight	kg	7	70	8	30	1,0)30	1,:	280	
Dimensions (W×D×H)	mm		1,400×9	70×1,400			1,830×98	30×1,580		
Sound Level (1.5m from front side)	dB(A)	62	63	63	64	64	66	64 66		

NOTE:

1. Capacity is measured according to ISO 1217, fourth edition, Annex C.

2. Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under full load operation with no auto drain function. It may vary in different operation cond tions or environments. Sound level may be increased by 2dB when PQ WIDEMODE is ON.

3. P.D.P is measured at 30 degree C of intake air temperature and rated discharge pressure P.D.P can be much worse at 0.40MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.60MPa of discharge pressure PQ WIDEMODE ON.

4. Built-in drver 0.30MPa model is NOT available.

5. Capacity after built-in dryer is decreased by 3%.

 In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40 degree C, and discharge air temperature of air-cooled models is atmospheric temperature +18 degree C or less.

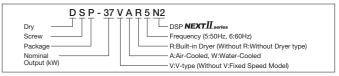
7. Earth leakage circuit breaker is out of supply scope from Hitachi.

8. These air compressors are not designed, intended or approved for breathing air applications.

9. Pressures are indicated as the gauge pressure.

10. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.

11. Protruding objects such as discharge pipe are not included in Dimension 12. Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.



Two-Stage, Air-Cooled (22/37/45/55/75/90/100/120kw)



*The above picture shows 75kW Air-Cooled model (V-type).

IPC Control (Intelligent Pressure Control)

By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables Energy-Saving. Patent JP4425768 and others

Example of effect by IPC

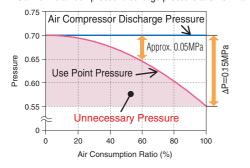
e Air compressor: DSP-37VATN2 • Control pressure setting: 0.70MPa • Use point pressure during full load: 0.55MPa Condition Piping pressure loss during full load: 0.15MPa

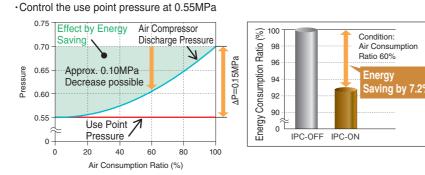
2 IPC-ON

Graph of pressure change (Theoretical values)



Control the air compressor discharge pressure at 0.70MPa





*Due to estimation control, use point pressure varies in accordance with use conditions.

IT Communication Functions

USB Flash Memory Possible for Data Logging

*Necessary to prepare a USB flash memory device (5.5cm or smaller) on user's side. *Operation data for one day is approximately 400kB. (For reference)

Web Server Function via Bluetooth®

*Necessary to prepare a Bluetooth® USB dongle on your side *For setting changes, part of the items are applicable.

Modbus[®] Communication

Open network serial communication Modbus[®]/RTU is supported as standard *Modbus®/TCP support is optional.

·Bluetooth is the registered trademark of Bluetooth SIG. Inc (US). ·Modbus is the registered trademark of Schneider Automation Inc

USB flash memory (data retrieving) (Standard) pressure/temperature/current/history/time



Specifications

Air-Cooled 22/37kW

Air-0	Cooled 22/37kW							[] : Indicates model w	ith Dryer integrated.
	<u>_</u>	Model			Fixed Spe	eed Model			V-type	Model
ltem∙Ur	hit			T [R] 5N2 T [R] 6N2		T [R] 5N2 T [R] 6N2		T [R] 5N2 T [R] 6N2	DSP-37V	AT [R] N2
Discharg	e Pressure	MPa	0.70	0.88	0.70	0.88	0.70	0.88	0.70	0.88
Discharg	e Air Capacity	m³/min	3.7	3.2	4.7	4.0	5.6	4.7	5.5	4.6
Discharge A	ir Capacity at PQ wide ON of 0.6MPa	111-7111111				-			6.0	5.6
Nominal	Motor Output	kW	2	2	3	30	3	37	3	57
Motor Ty	ре	_			4-Pole	e TEFC			6-Pole	DCBL
Intake Ai	r Pressure / Temperature	°C		At	mospheric Press	ure / 0 – 45 [2 – 4	5]		Atmospheric Press	sure / 0 – 45 [2 – 45]
Discharg	e Temperature	°C			Ambient Tempera	ture +15 or below	v		Ambient Tempera	ture +15 or below
Discharg	e Pipe Diameter	В			Rc1	-1/2			Rc1	-1/2
Starting I	Vethod	_			Star-Delta	(3 contact)			Soft	Start
Driving N	lethod	_		V-I	Belt with Auto Ter	nsioner+Gear-Dri	ven		Direct Connection	on + Gear Driven
Lubricati	ng Oil Filling	L			15 (No	ot filled)			15 (No	ot filled)
Output o	f Cooling Fan	kW			1.1 (lr	iverter)			1.1 (In	iverter)
	P.D.P	°C			[10 (Under	r Pressure)]			[10 (Under	Pressure)]
[Dryer]	Refrigerator Nominal Output	kW			[1.	.45]			[1.	45]
	Refrigerant	_			[R4	10A]			[R4	10A]
Weight		kg	1,120	[1,180]		1,230	[1,290]		950 [1,010]
Dimensio	ons (W×D×H)	mm			1,530×1,	150×1,650			1,530×1,1	150×1,650
Noise Le	Noise Level (1.5m from front side)		63	64	65	66	66	67	66	67

Air-Cooled 45/55/75kW

	<u> </u>	Model			Fixed Spe	eed Model				V-type	Model	
ltem∙Ur	hit			T [R] 5N2 T [R] 6N2		T [R] 5N2 T [R] 6N2		T [R] 5N2 T [R] 6N2	DSP-55V	AT [R] N2	DSP-75V	/AT [R] N2
Discharg	e Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93
Discharg	e Air Capacity	m³/min	7.4/7.8	6.2/6.5	9.2	7.2/7.7	13.0	10.5/11.1	9.3	7.7	12.6	10.9
Discharge A	ir Capacity at PQ wide ON of 0.6MPa	mann				-			9.6	9.3	13.0	12.6
Nominal	Motor Output	kW	4	5	5	55	7	5	5	5	7	5
Motor Ty	pe	_			2-Pole TE	FC Flange			6-Pole	DCBL		
Intake Ai	r Pressure / Temperature	C		Atmo	spheric Press	ure / 0 – 45 [2		Atmo	spheric Press	ure / 0 – 45 [2	-45]	
Discharg	e Temperature	°C		Amb	pient Tempera	ature +15 or be		Amb	pient Tempera	ture +15 or be	elow	
Discharg	e Pipe Diameter	В			2 (Fl	ange)				2 (Fla	ange)	
Starting I	Vethod	_			Star-Delta	(3 contact)				Soft	Start	
Driving N	lethod	—		Di	rect Connecti	on + Gear Driv	en		Di	rect Connectio	on + Gear Driv	en
Lubricati	ng Oil Filling	L			25 (No	ot filled)				25 (No	t filled)	
Output o	f Cooling Fan	kW		1.5 (In	verter)		2.2 (In	verter)	1.5 (In	verter)	2.2 (In	verter)
	P.D.P	°C			[10 (Under	r Pressure)]				[10 (Under	Pressure)]	
[Dryer]	Refrigerator Nominal Output	kW		[2	.2]		[3	.0]	[2	.2]	[3.	.0]
	Refrigerant	_		[R4 ⁻	10A]		[R40	07C]	[R41	10A]	[R40)7C]
Weight		kg		1,600 [[1,750]		1,860 [2,030]	1,340 [[1,490]	1,560 [1,730]
Dimensio	ons (W×D×H)	mm		2,000×1,3	800×1,800		2,250×1,3	800×1,800	2,000×1,3	800×1,800	2,250×1,3	00×1,800
Noise Le	vel (1.5m from front side)	dB(A)	63	65	63	65	6	8	63	65	67	68

Air-Cooled 90/100/120kW

	Model			Fixed Spe	ed Model			V-type	Model			
Item∙Unit			5 [L] MN2 6 [L] MN2		45 [L] MN2 46 [L] MN2		0A5MN2 0A6MN2		IVA5MN2 IVA6MN2			
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93			
Discharge Air Capacity	m³/min	16.6	13.9	18.0	15.4	20.5	17.3	18.0	15.4			
Nominal Motor Output	kW	g	0	1	00	1:	20	1(00			
Motor Type	_			2-Pole TE	FC Flange			2-Pole TE	FC Flange			
Intake Air Pressure / Temperature	Ĵ			Atmospheric P	ressure / 0 – 45			Atmospheric Pressure / 0 -				
Discharge Temperature	°C		1	Ambient Tempera	ture +15 or belov	V		Ambient Tempera	ture +15 or below			
Discharge Pipe Diameter	В			2 (Fl	ange)			2 (Fla	ange)			
Starting Method	_			Star-Delta	(3 contact)			Inve	erter			
Driving Method	_			Direct Connection	on + Gear Driven			Direct Connection	on + Gear Driven			
Lubricating Oil Filling	L			26 (No	t filled)			26 (No	t filled)			
Output of Cooling Fan	kW			1.5	5×2			1.5	5×2			
Weight	kg		2,2	200		2,3	380	2,3	300			
Dimensions (W×D×H)	mm			2,150×1,5	520×1,975			2,150×1,520×1,975				
Noise Level (1.5m from front side)	dB(A)	68	70	69	71	72 73 69 71						

NOTE:

1. Capacity is measured according to ISO 1217, fourth edition, Annex C. 2. Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under full load operation with no auto drain function. It may vary in different operation conditions or

environments. Sound level may be increased by 2dB when PQ WIDEMODE is ON. 3. PD.P is measured at 30 degree C of intake air temperature and rated discharge pressure. P.D.P can be much worse at 0.60MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.60MPa of discharge pressure PQ WIDEMODE ON.

Capacity after built-in dryer is decreased by 3%.
 In case of dust-proof or package filter option, maximum ambient temperature is limited up to

40 degree C, and discharge air temperature of air-cooled models is atmospheric temperature +18 degree C or less.

[]: Indicates model with Dryer integrated.

6. Earth leakage circuit breaker is out of supply scope from Hitachi.

7. These air compressors are not designed, intended or approved for breathing air applications. 8. Pressures are indicated as the gauge pressure.

9. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.

10. Protruding objects such as discharge pipe are not included in Dimension 11. Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.

Two-Stage, Water-Cooled (45/55/75/90/100/120kw)



*The above picture shows the internal structure of 75kW Water-Cooled model (V-type).

IPC Control (Intelligent Pressure Control)

By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables Energy-Saving. Patent JP4425768 and others

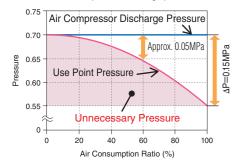
Example of effect by IPC

• Air compressor: DSP-37VATN2 • Control pressure setting: 0.70MPa • Use point pressure during full load: 0.55MPa Condition Piping pressure loss during full load: 0.15MPa

Graph of pressure change (Theoretical values)

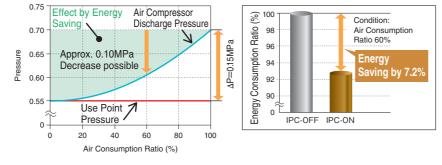
(1) IPC-OFF

Control the air compressor discharge pressure at 0.70MPa



2 IPC-ON

·Control the use point pressure at 0.55MPa



*Due to estimation control, use point pressure varies in accordance with use conditions.

IT Communication Functions

USB Flash Memory Possible for Data Logging

*Necessary to prepare a USB flash memory device (5.5cm or smaller) on user's side. *Operation data for one day is approximately 400kB. (For reference)

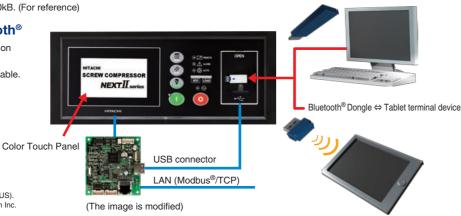
Web Server Function via Bluetooth®

*Necessary to prepare a Bluetooth® USB dongle on your side *For setting changes, part of the items are applicable.

Modbus[®] Communication

Open network serial communication Modbus[®]/RTU is supported as standard *Modbus®/TCP support is optional.

·Bluetooth is the registered trademark of Bluetooth SIG. Inc (US). ·Modbus is the registered trademark of Schneider Automation Inc USB flash memory (data retrieving) (Standard) pressure/temperature/current/history/time



Specifications

Wat	er-Cooled 45/55/75	kW								[]: Indicat	es model with E	Oryer integrate	
	<u> </u>	Model			Fixed Spe	eed Model				V-type	Model		
ltem∙Ur	nit			/T [R]5N2 /T [R]6N2		/T [R]5N2 /T [R]6N2		/T [R]5N2 /T [R]6N2	DSP-55V	WT [R]N2	DSP-75V	WT [R]N2	
Discharg	e Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	
Discharg	e Air Capacity (50Hz/60Hz)		7.5/7.9	6.4/6.7	9.4	7.4/7.9	13.2	10.7/11.3	9.5	8.0	12.9	11.4	
Discharge A	ir Capacity at PQ wide ON of 0.6MPa	m³/min				_			9.8	9.5	13.4	13.0	
Nominal	Motor Output	kW	4	5	5	5	7	5	5	5	7	5	
Motor Ty	pe	_			2-Pole TE	FC Flange				6-Pole	DCBL		
Intake Ai	r Pressure / Temperature	_		Atmo	spheric Press	ure / 0 – 45 [2	- 45]		Atmo	spheric Press	ure / 0 – 45 [2	- 45]	
Discharg	e Temperature	°C		Coolin	g Water Temp	erature +13 o	r below		Coolin	g Water Temp	erature +13 or	r below	
Discharg	e Pipe Diameter	В			2 (Fl	ange)			2 (Flange)				
Starting	Method	_			Star-Delta	(3 contact)				Soft	Soft Start		
Driving N	lethod	_		Di	rect Connecti	on + Gear Driv	en		Di	rect Connectio	on + Gear Driv	en	
Lubricati	ng Oil Filling	L			15 (No	ot filled)				15 (No	t filled)		
Output o	f Cooling Fan	kW			0.0	5×2				0.0	5×2		
Cooling	Nater Capacity	L/min		g	0		12	20	g	0	12	20	
Cooling	Nater Temperature	°C			35 or	below				35 or	below		
Cooling	Nater Pipe Diame	В			Rc	1-1/4				Rc 1	-1/4		
	P.D.P	°C			[10 (Under	Pressure)]				[10 (Under	Pressure)]		
[Dryer]	Refrigerator Nominal Output	kW		[2	.2]		[3	.0]	[2	.2]	[3	.0]	
	Refrigerant	_		[R4	10A]		[R40)7C]	[R4	10A]	[R40)7C]	
Weight		kg		1,580	[1,730]		1,710 [1,880]	1,320	[1,470]	1,410 [1,580]	
Dimensio	ons (W×D×H)	mm			2,000×1,3	300×1,800				2,000×1,3	800×1,800		
Noise Le	vel (1.5m from front side)	dB(A)	6	3	6	3	65	66	6	3	65	66	

Water-Cooled 90/100/120kW

	Model			Fixed Spe	eed Model			V-type	Model	
		DSP-90W	'5 [L] MN2	DSP-100V	V5 [L] MN2	DSP-12	0W5MN2	DSP-100	VW5MN2	
Item•Unit		DSP-90W	'6 [L] MN2	DSP-100V	V6 [L]MN2	DSP-12	0W6MN2	DSP-100	VW6MN2	
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	
Discharge Air Capacity	m³/min	16.8	14.0	18.3	15.6	21.0	17.6	18.3	15.6	
Nominal Motor Output	kW	g	0	10	00	1:	20	1	00	
Motor Type	_			2-Pole TE	FC Flange			2-Pole TE	FC Flange	
Intake Air Pressure / Temperature	_	Atmospheric Pressure / 0 – 45 Atmospheric Pressure / 0 – 45								
Discharge Temperature	°C									
Discharge Pipe Diameter	В			2 (Fla	ange)			2 (Fl	ange)	
Starting Method	_			Star-Delta	(3 contact)			Inve	erter	
Driving Method	—			Direct Connection	on + Gear Driven			Direct Connecti	on + Gear Driven	
Lubricating Oil Filling	L			16 (No	ot filled)			16 (No	ot filled)	
Cooling Water Capacity	L/min		1	60		1	80	1	60	
Cooling Water Temperature	°C			35 or	below			35 or	below	
Cooling Water Pipe Diame	В			Rc 1	1-1/2			Rc	1-1/2	
Weight	kg		2,0	230	2,2	200				
Dimensions (W×D×H)	mm	mm 2,150×1,520×1,825 2,150×1,520×1,825							520×1,825	
Noise Level (1.5m from front side)	dB(A)	66	68	67	69	69	70	67	69	

NOTE:

1. Capacity is measured according to ISO 1217, fourth edition, Annex C. 2. Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under

full load operation with no auto drain function. It may vary in different operation conditions or onments. Sound level may be increased by 2dB when PQ WIDEMODE is ON. 3. P.D.P is measured at 30 degree C of intake air temperature and rated discharge pressure.

PD.P can be much worse at 0.60MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.60MPa of discharge pressure PQ WIDEMODE ON. 4. Capacity after built-in dryer is decreased by 3%.

5. In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40 degree C.

6. Earth leakage circuit breaker is out of supply scope from Hitachi.

7. These air compressors are not designed, intended or approved for breathing air applications. 8. Pressures are indicated as the gauge pressure

9. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.

10. Protruding objects such as discharge pipe are not included in Dimension 11. Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.

Two-Stage, Water-Cooled (132/145/160/200/240kw) Two-Stage, Air-Cooled (132/145/160/200/240kw)



High Capacity by Equipping New

NEXTI Series Air-End

Low Noise Low Vibration

Compact Design by Optimized Layout of Components

High Discharge Pressure Available (up to 1.0MPa)

High Reliability and Easy Maintenance

Totally enclosed flange motor is standard

New totally enclosed flange motor is applied to improve reliability. Motor shaft in direct connection without coupling enables easy maintenance work.

High precooler system (Air-Cooled models)

High precooler system reduces temperature of extremely hot air to aftercooler and Two-Stage cooling structure improves reliability.

High Discharge Pressure Available

1.0MPa is available with high reliability.

Maintenance Friendly

DSP series provides easy accessibility for inspection and maintenance.

ina fan 🚄 160°C-180°C 1st stag air end Two Stage cooling structure 2nd stag air end

Specifications_

Item•Unit	Model		DSP-160VW5N2 DSP-160VW6N2			DSP-240VW5N2 DSP-240VW6N2					
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0				
Discharge Air Capacity	m³/min	28.5	24.8	23.2	40.5	35.0	32.5				
Nominal Motor Output	kW		160			240					
Motor Type	_			4-Pole TEFC	Flange Motor						
Intake Air Pressure / Temperature	°C		Atmospheric Pressure / 0 - 45								
Discharge Air Temperature	°C		Cooling Water Temperature+13 or below								
Discharge Air Pipe Diameter	В		2-1/2 (Flange)			3 (Flange)					
Starting Method	_			Inve	erter						
Driving Method	_			Direct Connection Wit	h Motor+Gear-Driven						
Cooling Water Flow Rate	L/min		240			330					
Cooling Water Temperature	°C			35 or	below						
Coolant Water Pipe Diameter	В			Ro	52						
Lubricating Oil Quantity	L		40 (Not filled)			50 (Not filled)					
Cooling Fan Motor Output	kW			0.	.4						
Weight	kg		3,960			4,900					
Dimensions (W×D×H)	mm		2,500×1,600×1,925			2,800×1,800×1,950					
Sound Level (1.5m from front side)	dB(A)		70			71					

Air-Cooled, Fixed Speed Model (132-240kW)

	Model	DS	SP-132A5	N2	DS	SP-145A5	N2	DS	SP-160A5	N2	DS	SP-200A5	N2	DS	SP-240A5	N2
Item•Unit		DS	SP-132A6	N2	DS	SP-145A6	N2	DS	P-160A6	N2	DS	SP-200A6	N2	DS	SP-240A6	N2
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0
Discharge Air Capacity	m³/min	22.5	20.0	19.0	25.0	21.4	20.0	27.5	23.9	22.5	37.0	32.2	30.0	40.0	35.0	32.5
Nominal Motor Output	kW		132			145			160			200			240	
Motor Type	-	4-Pole TEFC Flange Motor														
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 - 45														
Discharge Air Temperature	°C	Ambient Temperature+15 or below														
Discharge Air Pipe Diameter	В				2-	1/2 (Flang	je)						3 (Fla	ange)		
Starting Method	_							Star-D	elta (3-co	ntact)						
Driving Method	_						Direct (Connectio	n With Mo	tor+Gear	-Driven					
Lubricating Oil Quantity	L				5	0 (Not fille	d)						60 (No	ot filled)		
Cooling Fan Motor Output	kW				4	.4 (1.1×4	L)						6.0 (1.5×4)		
Weight	kg	3,860 3,960 5,000														
Dimensions (W×D×H)	mm	mm 2,900×1,700×1,925 3,200×1,890×1,950														
Sound Level (1.5m from front side)	dB(A)	73	7	4	74	7	'5	74	7	5	76	7	7	77	7	'8

Water-Cooled Fixed Speed Model (132-2/0kW)

Water-Cooled, Fixed	i Spee	a woa		-24060)											
	Model	DSP-132W5N2			DSP-145W5N2			DSP-160W5N2			DSP-200W5N2			DSP-240W5N2		
Item·Unit		DSP-132W6N2			DSP-145W6N2			DS	SP-160W6	N2	DSP-200W6N2			DSP-240W6N2		
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0
Discharge Air Capacity	m³/min	23.4	20.7	19.6	26.0	22.2	20.6	28.5	24.8	23.2	37.0	32.2	30.0	40.5	35.0	32.5
Nominal Motor Output	kW		132			145			160			200			240	
Motor Type	_							4-Pole T	EFC Flang	ge Motor						
Intake Air Pressure / Temperature	°C							Atmosphe	eric Pressu	ıre / 0 - 45	5					
Discharge Air Temperature	°C		Cooling Water Temperature + 13 or below													
Discharge Air Pipe Diameter	В		2-1/2 (Flange) 3 (Flange)													
Starting Method	_							Star-D	Delta (3-co	ntact)						
Driving Method	_						Direct	Connectio	n With Mo	tor+Gea	-Driven					
Cooling Water Flow Rate	L/min		200			210			240		300 330					
Cooling Water Temperature	°C				3	35 or below	N						35 or	below		
Coolant Water Pipe Diameter	В					Rc2							R	c2		
Lubricating Oil Quantity	L		40 (Not filled) 50 (Not filled)													
Cooling Fan Motor Output	kW		0.4													
Weight	kg		3,760 4,600													
Dimensions (W×D×H)	mm		2,500×1,600×1,925 2,800×1,800×1,950													
Sound Level (1.5m from front side)	dB(A)	68	6	9	69	7	0	69	7	0	69	7	0	70	7	1

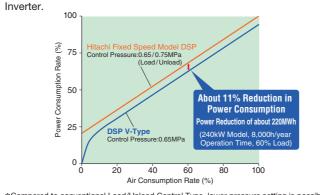
NOTE:

 Capacity is measured according to ISO 1217, fourth edition, Annex C.
 Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under full load operation with no auto drain function. It may vary in different operation conditions or

environments 3. In case of dust-proof or package filter option, maximum ambient temperature is limited up to

40 degree C, and discharge air temperature of air-cooled models is atmospheric temperature +18 degree C or less.

4. Earth leakage circuit breaker is out of supply scope from Hitachi



Further Energy-Saving is achieved by DSP **NEXT** II series with Built-in

Energy-Saving (V-type)

*Compared to conventional Load/Unload Control Type, lower pressure setting is possible due to the stable pressure control.

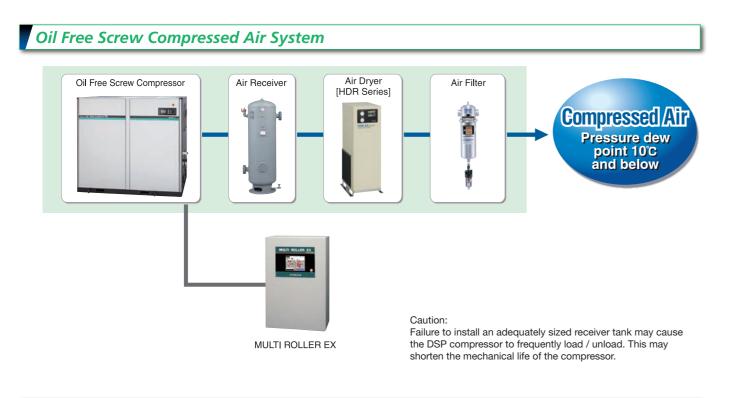
5. These air compressors are not designed, intended or approved for breathing air applications

6. Pressures are indicated as the gauge pressure. 7. Install the air compressor indoors and avoid flammable and corrosive environment, and dust.

8. Rear duct (200mm depth) and other protruding objects such as a discharge pipe are not included in dimension.

9. Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice

Auxiliary Equipment & Options



Control Panel

Multi Unit Controller (MULTI ROLLER EX)

- Designed for Hitachi Air Compressor
- Efficient Control of Multiple Units
- Energy-Saving
- Various Functions Available

Standard Specification

Iter	m Model	Unit	MR 26-4	MR 26-8	MR 26-12				
Pov	wer Supply	-	 Single-phase AC100/200V (Common) 						
Fre	quency	-		50/60Hz (Common)				
Cor	ntrolled Unit	ed Unit – 4 8 12							
t	Discharge Pressure	MPa	0 -	- 1 (Digital Indicati	on)				
Input	G Control		Answer (Operation), Failure						
-	External	-	Start, Stop, Forced Start-up, Remote						
Dutput	Control	—	Run, S	Stop, Load, PID Co	mmand				
Out	External	-	S	start, Shutdown, Au	to				
Con	trolled Discharge Pressure	-	Minir	mum ±0.001MPa s	etting				
Din	nensions (W×D×H)	mm	400×200×600	500×200×900	500×200×1,200				
We	ight	kg	19	32	37				

Alternate Operation Controller (Dual Roller III)

Designed for Hitachi Air Compressor



Standard Specification

• Efficient Control of 2 Units

Energy-Saving

Iter	m Model	Unit	SD	R-3					
Power Supply			AC100V (-10%+10%) [Possible for AC200V by switching connect						
Pov	ver Supply Frequency	_	AC100 to 240V±10% 5	0/60Hz [Single-phase]					
Cor	ntrollable Number of Units	_	2	2					
	Frequency × 2	mA	4 – 20	(250Ω)					
	Remote-Set [Remote] × 2	-		and the term high sec					
Input	Run [Operation] × 2	—	Connection using the						
5	Failure [Shut down] × 2		voitage is applied [P	voltage is applied [Power supply DC24V]					
	ElectricPulse · Extra ×2	-	Optional terminals						
	Run × 2		1500ms w/out voltage	"a"contact					
put	Stop × 2	-	Pulse AC250V0.3A	"b"contact					
Output	Load/Unload Command × 2	-	Dry contact	"c"contact					
	Status × 2	-	AC250V0.3A	"a"contact					
Pre	ssure Detection	-	Built-in pressure s	ensor [0 – 1 MPa]					
Operation Method				[pressure/failure] , P/GAP] , Schedule					
Standard Function			Initial pump-up ope IPS restart, Re	ration, Err. history, mote operation					
Dim	nensions (W×D×H)	mm	300×16	60×400					
Weight			1	0					

HITACHI ROTARY COMPRESSOR OIL

HITACHI Genuine Lubricating Oil designed for Hitachi Rotary Screw Compressor

Features

- Originally Designed for Hitachi Rotary Screw Compressor
- High Performance
- High Reliability

Specifications		
Item	Unit	Content
ISO Viscosity Grade	-	32
Density @15°C	kg/L	0.86
Viscosity @40°C	mm²/s	32.6
Viscosity Index	_	102
Flash Point	°C	> 200
Content	L	20
Package	-	Plastic Container Tank
Weight	kg	About 18
5 0		HISCREW: 3,000 operating hours or 1 year which comes earlier
Exchange Cycle	-	DSP: Every half year

NOTE: Do NOT use this oil on the compressor which requires synthetic lubricating oil.

HITACHI FOOD GRADE ROTARY COMPRESSOR OIL

HITACHI Genuine Lubricating Oil for Hitachi Air Compressor Used in Food Industry

Features

- Comply with the international hygiene control method for food safety, HACCP*1
- Consist of ONLY prescript substances specified by the US FDA^{*2}
- Approved and registered as H1 grade^{*4} by the US NSF International^{*3}
- Applicable for both HITACHI Rotary Screw Compressor (HISCREW/DSP)
- *1 Hazard Analysis Critical Control Point*2 Food and Drug Administration
- *3 National Sanitation Foundation International *4 The OIL can be used in places where it can make occasional contact with foods.
- The materials must be prescript substances regulated in the US Food and Drug Law: FDA21 CFR178.3570.

Specifications

Item	Unit	Content
ISO Viscosity Grade	-	32
Color Phase	_	Colorless and Transparent
Density @15°C	kg/L	0.84
Viscosity @40°C	mm²/s	32.8
Flash Point	°C	200
Pour Point	°C	-50
Content	L	20
Exchange Cycle	-	8,000 operating hours or 1 year which comes earlier
Retrofit		Flushing running operation with the exclusive flushing use oil
Retront	-	(new oil 20L can) for 30 minutes × twice then refill with new oil
Package	-	Plastic Container Tank
Weight	kg	About 18

1. Compliance Standard / Law: NSF H1 approval No. 138329 and FDA21 CFR178.3570 2. For retrofitting from conventional mineral oil to HITACHI FOOD GRADE DSP OIL, contact your nearest Hitachi authorized distributor / dealer









74

Accessories	5
NOTE:	

Weight

Pipe Diameter Dimensions (W×D×H)

1. The capacity values above are measured at an ambient temperature of 30°C, inlet temperature of 45°C, inlet pressure of 0.70MPa.

44

Rc 1

303×603×720

46

 Dew point gets worse if operated at pressure below the range of operation pressure.
 The dimensions do NOT include protruding objects. 4. In case of having solid objects such as rust in the inlet air flow, install a pre-filter on the inlet of dryer.

В

mm

kg

_

Hitachi Air Dryer HDR (Large Size) series



Rc 1-1/2

Auto Drain Trap, Drain Valve

87 135

Rc 2

170

356×513×1,067 356×513×1,274 356×903×1,274 356×903×1,489 406×1,400×1,380

Rc 2-1/2

280

Specifications

Item•Unit	Model	HDR-120WX	HDR-150WX	HDR-190WX	HDR-240WX	HDR-300WX	HDR-380WX	HDR-120AX	HDR-150AX	HDR-190AX	HDR-240AX	HDR-300AX	HDR-380AX
Capacity (Note 1) 50/60Hz	m³/min	21/25	27/31	35/41	42/49	51/60	64/75	20/23	25/30	32/38	38/45	47/55	59/69
Max. Inlet Pressure of Compressed Air	MPa		0.30 -	- 0.97		0.30 ·	- 0.93		0.30 ·	- 0.97		0.30	- 0.93
Max. Inlet Temperature of Compressed Air	°C						6	60					
Ambient Temperature	°C						2 -	- 40					
Dew Point of Outlet Air	°C						10 Under	r Pressure					
Cooling Method of Condenser	-		Water-Cooled Air-Cooled										
Refrigerant Control Device	-		Capillary Tube										
Capacity Control Device	_		Hot Gas Bypass Valve										
Refrigerant Used	—						R40	07C					
Charged Quantity	g	1,900	2,000	2,700	3,400	4,000	4,000	2,200	3,600	3,500	4,400	5,000	6,000
Finish Color	-					lv	ory (Munsell	No. 5Y8.5/	1)				
Cooling Water Quantity	m³/h	2.5/2.9	2.7/3.0	3.0/3.2	3.6/3.8	3.4/4.0	4.3/5.0			-	-		
Pipe Diameter	В	2•1/2*	3)*	4*	5	5*	2.1/2*	3	}*	4*	5	5*
Dimensions (W×D×H)	mm	672×1,260 ×1,276	950X1 290X1 332 2 020X1 100X1 650 950X1 290X1 332 2 020X1 100X1 65								00×1,650		
Weight	kg	238	346	344	534	792	872	258	372	370	557	792	872
Accessories	—		Auto Drain Trap, Drain Valve										

* JIS 10K Flange

NOTE:

1. The capacity values above are measured at an ambient temperature of 32°C, inlet temperature of 40°C, inlet pressure of 0.69MPa.

Dew point gets worse if operated at pressure below the range of operation pressure.
 The dimensions do NOT include protruding objects.

4. In case of having solid objects such as rust in the inlet air flow, install a pre-filter on the inlet of dryer.

Line Filter	
Air Filter*1	Micron Mist Filter*2
No estimation e	

Specifications

Οp	ecifica															
\searrow	Item		Model	7.5BX	11BX	15BX	22B	37B	55B	75B	100B	125C	160C	200C	240B	
	Air Condition	Capacity (converted to theambient pressure)	m³/min	1.2	1.8	2.4	3.9	6.6	10.6	13.8	20	27.6	32	40	50	
LOL		Inlet Air Temperature	°C		30											
Common		Inlet Air Pressure	MPa		0.69											
ŏ	Use	Applicable Fluid	_						Compre	ssed Air						
	Condition	Max. Pressure	MPa		1.57						0.97					
	Connectir	ng Pipe Diameter	B (A)	Rc3/4 (20)	Rc1	(25)	Rc1 (25)	Rc11/2 (40)	Rc11/2 (40)	Rc2 (50)	Rc2 (50)	2 1/2* (65)	3* (80)	3* (80)	4* (100)	
	Item		Model	HAF-7.5BX	HAF-11BX	HAF-15BX	HAF-22B	HAF-37B	HAF-55B	HAF-75B	HAF-100B	HAF-125C	HAF-160C	HAF-200C	HAF-240B	
	Use	Inlet Air Temperature Range	°C						5 -	60						
	Condition	Ambient Temperature Range	°C						2 -	60						
~	Filtration	Rating	μm						1	¢1						
Air Filter	Filtration	Efficiency	%		99.999											
i' F	Pressure	Initial	MPa						0.005 o	r below						
4	Drop (Loss)	Element Exchange	MPa		0.07											
	Dimension (Max. Diameter×Length) mm			92×237	130×	290.5	160×509	170×591	170×699	173×792	173×949	590×1,511	590×1,511	590×1,511	640×1,735	
	Drain Out	let Diameter				1		Rc1/	4 (8)							
	Weight		1	2	2.1	3	3.3	3.7	4.3	6	41	43	43	73		
	Item		Model	HMF-7.5BX	HMF-11BX	HMF-15BX	HMF-22B	HMF-37B	HMF-55B	HMF-75B	HMF-100B	HMF-125C	HMF-160C	HMF-200C	HMF-240B	
	Use	Inlet Air Temperature Range	°C						5 -	60						
Ļ.	Condition	Ambient Temperature Range	°C						2 -	60						
Filter	Density of	Oil in the Discharge Air	wtppm						0.0	1* ²						
ist F	Pressure	Initial	MPa						0.0	D1						
Micron Mist	Drop (Loss)	Element Exchange	MPa						0.0	07						
cro	Dimension	(Max. Diameter×Length)	mm	92×237	130	×364	160×582	170×664	170×772	173×865	173×1,022	590×1,511	590×1,511	590×1,511	640×1,735	
Ξ	Drain Out	let Diameter	B (A)						Rc1/	4 (8)						
	Weight		kg	1	2	2.1	3	3.3	3.7	4.3	6	41	43	43	73	
	Item		Model	HKF-7.5BX	HKF-11BX	HKF-15BX	HKF-22B	HKF-37B	HKF-55B	HKF-75B	HKF-100B	HKF-125C	HKF-160C	HKF-200C	HKF-240B	
ter	Use	Inlet Air Temperature Range	°C						5 –	60						
Carbon Filter	Condition	Ambient Temperature Range	°C						2 -	60						
arbor	Density of	Oil in the Discharge Air	wtppm						0.00)3*3						
d Ca	Pressure	Drop (Loss)	MPa						0.0	07						
ated	Dimension	(Max. Diameter×Length)	mm	92×232	130×	281.5	160×308	170×390	170×498	173×591	173×748	590×1,511	590×1,511	590×1,511	640×1,735	
Activated	Weight		kg	1	:	2	3	3.3	3.7	4.3	6	41	43	43	73	
	S 10K Fland		÷													

Make sure to install an air dryer before the filter.
 *1 The density of oil in the inlet air is 3wtppm.

*2 According to "Test methods for oil aerosol content" of ISO8573-2, the density of oil in the inlet air is 3wtppm.
*3 According to "Test methods for oil aerosol content" of ISO8573-2, the density of oil in the inlet air is 0.01wtppm.



Activated Carbon Filter*3

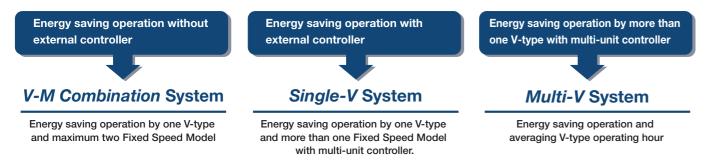


Systems and Options

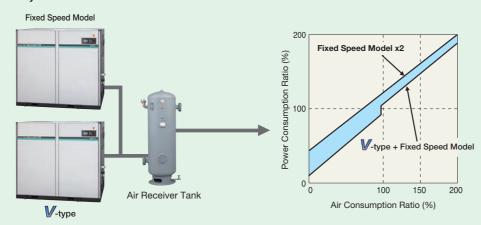
Energy Saving from Various Combinations V-type based Systems

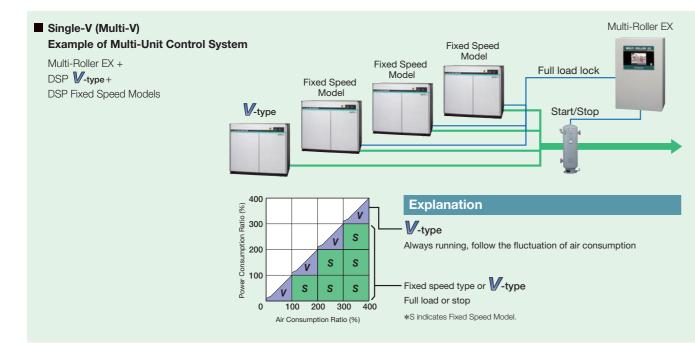
Proposal for Energy-Saving

Three proposal systems responding to various requirements **Combination V-type with Fixed Speed Model achieves**



Basic Example of V-M Combination System





Cati

	DSP NEXT ∏ series											
	Singl	e-Stage	Two	-Stage	Two-Stage							
	V-type (VSD)	Fixed Speed Model	V-type (VSD)	Fixed Speed Model	V-type (VSD)	Fixed Speed Mode						
Nominal Output (kW)	22 — 55	15 — 55	37 — 100	22 - 120	160/240	132 — 240						
					Care 10							
il Mist Remover (OMR)	Standard	Standard	Standard	Standard	Standard	Standard						
stantaneous Power terruption (IPI) Restart	Standard	Standard	Standard	Standard	Standard	Standard						
lulti-unit Control vith Multi Roller EX)	•	•	•	•	•	•						
Iternate Operation vith Dual Roller)	•	•	•	•	•	•						
Iternate Operation*1	•	•	•	•	•	•						
UTO Operation	Standard	Standard	Standard	Standard	Standard	Standard						
M Combination	•	*2	•	-*2	٠	— *2						
odbus®/TCP	•	•	٠	•	•	•						
ackage Filter	•	•	•	•	•	•						
ust Filter	•	•	•	•	•	•						
becified Color of bund-Proof Cover	•	•	•	•	•	•						
ood Grade Oil	•	•	•	•	•	•						

NOTE

*1 Alternate Operation is possible between same models or models of the same series. In case of alternate operation between models of different series, connection and control by Dual Roller is necessary. *2 In case of V-M Combination, modification on the Fixed Speed Model is not necessary

*3 For other options, contact your nearest dealer or Hitachi local representative office.

Safety Precautions

Regarding compressor application

- this could result in a fire hazard or damage to the equipment.
- Never use compressed air for human breathing.

Regarding installation site

- Install this compressor indoors. Avoid using it at a place susceptible to moisture such as precipitation or vapors this could result in
- a fire hazard, electric shock, rusting or shortened life of parts. • There should be no explosive or flammable gas (acetylene, propane, etc.), organic solvent, explosive powder or flame used near the
- compressor otherwise there is a fire hazard. • Avoid using the compressor at a palace where there is corrosive gas such as ammonia, acid, salt sulfurous acid gas, etc.
- this could result in rusting, shortened life, or damage to the equipment.
- Regarding usage
- Before use, be sure to read the instruction manual thoroughly for correct use of the compressor.
- Absolutely avoid modifying the compressor or its components—this could result in damage or malfunction.

• The compressor described in this catalog utilizes only air as a gas. Absolutely avoid using it for compression of a gas other than air