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• For further information, please contact your nearest sales representative.



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

The sample is printed, sometimes different from the color of the object .



Hitachi oil-flooded rotary screw compressor



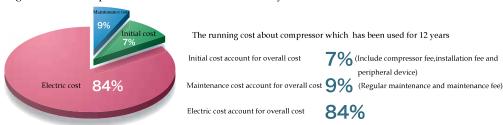
HISCREW

NEXT II series 55-160kW catalogue



Electric consumption becomes the biggest part of the compressor's running cost.

The running cost about compressor which has been used for 12 years



Calculation condition: Take HITACHI 75KW oil-flooded rotary screw compressor as a example 6,000hr/year,100% load

Hitachi - your trusted air solution provider

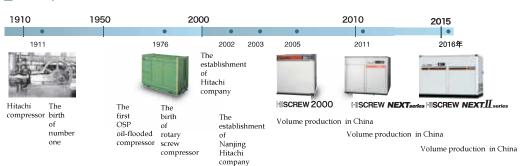
Over 100 years of compressed air experience, Hitachi has been and continues to be the technology leader via continuous innovation of air compressor technology

As a pioneer, specializing in air compressors in Japan, we commit ourselves to unstoppable effort in technology innovation and product development to meet diverse needs of customer.

Hitachi air compressor ranges from 0.1-1300KW in output ,with reciprocating, scroll, screw and turbo in compression form, based on oil-flooded and oil-free

We believe our air compressors with ultimate reliability, supreme energy and various air solution, will contribute to the progress and develop of your business

The development of Hitachi



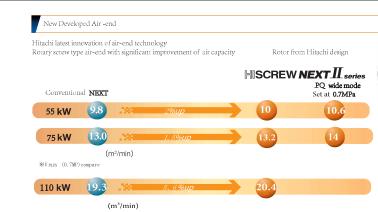
Ultimate evolution of air compressor — ├||SCREW NEXT || series

We are proud to introduce HISCREW NEXT II series, a new milestone in Hitachi innovation of air compressor technology.

With outstanding reliability, premium efficiency and industry leading performance ,

HISCREW NEXT II series will undoubtedly match your requirements for air compressors.







Hitachi DCBL compare to other

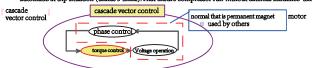
Energy-saving — DCBLMOTOR—

DCBL

→ Energy-saving Through independent capacity control to enlarge energy-saving

Vtype DCBL motor is developed by Hitachi ,the air-out pressure is under ± 0.01 Mpa.Bring about high speed reply, and energy-saving by stable load control system .

- DCBL connect to air-end, DCBL is cascade vector control , which ensure function and reliability .
- DCBL control can be restarted when trouble happen.DCBL control can give automatic judgment, and restart
 automatic at trip situation (unless 3 times). That ensure compressor run without external influence temporary

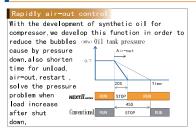


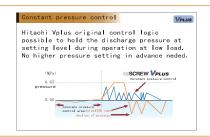
The difference between permanent magnet motor and induction motor



Intelligent control

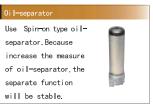
₩Mtvpe(0.85MPa)compare





Long term maintenance cycle & easy maintenance

Dust cover for compresso Dust cover set at entrance, according to setting time, Display panel reveal clean information.







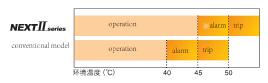
Lead compressor future Hitachi highly recommend energy-saving and IT communication function



High reliability

standard up to 45°C (operation is possible under 50°C)

Redesign air cooling compressor's structure, which shorten the pressure loss and improve cooling effect. Use high-performance cooling motor to improve work performance. Compressor can run stable under 45 °C high temperature . Improve the capability of water cooling compressor's oil cooler and after cooler. Water cooling compressor standard up to 45°C



* Ambient temperature alarm will be indicated when ambient temperature is over 45 °C. continuous operation at higher than 45 °C may shorten lifetime of lubricating oil and electric parts

55 -75kW 8 years 110-160kW 6 years maintenance

Combine high load bearing and high performance lubricating oil filter system, that allows compressor maintenance cycle last to 6~8 years * condition :yearly running time under 6000 hr,1MPa is 4years

New oil

New developed oil [NEW HISCREW OIL NEXT] has heat resistant and inhibit bubbles. The rapidly bleed system can shorten restart time. Same with conventional model oil change every 2 years

* condition :yearly running time under 6000 hr



IPC control (intelligent pressure control)

VPLUS M type

By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables energy-saving

Example of effect by IPC

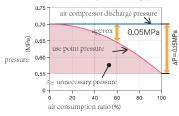
*Air compressor:OSP-160VAN2 *Control pressure setting:0.70MPa *Use point pressure during full load:0.55MPa *Piping pressure loss during full load:0.15MPa

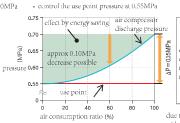
Graph of pressure change (Theoretical values)

IPC-OFF (conventional inverter control model)

2) IPC-ON(next II series)

·control the air compressor discharge pressure at 0.70MPa





compressor ratio energy consu 94 mptio 92 n ratio IPC-OFF IPC-ON

due to estimation control, use point pressure varies in accordance

constant speed compressor IPC range is air ration's 50%

IT communication function

USB flash memory possible for data logging

Exporting USB data in CSV format,co explore energy-saving solutions

*necessary to prepare a USB flash memory device(5.5cm or smaller)on user's side *operation data for one day is approximately 400kB

Web server function via bluetooth Customers use tablet computers to confirm compressor operation and change settings.

*necessary to prepare a bluetooth USB dongle on your side *for setting changes,part of the items are applicable

Modbus

Open network serial communication Modbus/ RTU is supported as standard

*Modus/TCP support is optional





Multi-function touch panel

Various function available

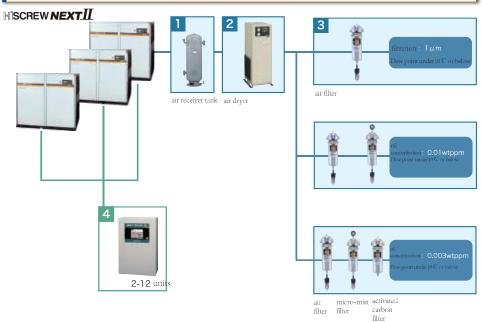
energy-saving operation/schedule operation(weekly time)/instantaneous power interruption restart function/alternate operation(option)/auto operation/ communication function/web serve function/store/load of setting/maintenance time notification

Operation data storage function

Pressure, temperature, electric current, running time, alarm record and other running data can be saved and verified from the operation panel on the spot.

Air compressor system





1 Air receiver tank

In order to exert the energy saving effect of compressor, Hitachi recommend to choose the air receiver tank with the following volume.

Air receiver tank volume list

model type	M	M type				
(kW)		ECOMODE	VPLUS			
55	1.24	1.24	0.70			
75	1,24	2.26	124			
110	2.26	4.0	4,0			
11.17	40	8,0	4.0			
160	4.0	80	4.0			

2 Air dryer

Dry air of higher quality

A rich line-up for your choice

3 Line filter

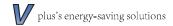
■ Various types of filter(air filter, micro-filter, activated carbon filter)

△ Multi-unit control panel(multi roller EX)

Energy-savinf

Easy-to-read LCD touch panel equipped

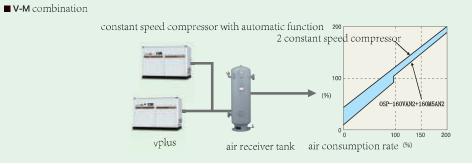
Note:for detailed information of above auxiliary equipment, contact your nearest dealer or Hitachi local representative offices.

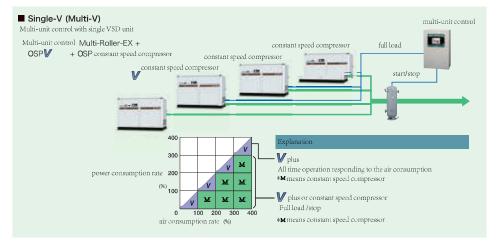


Energy-saving solutions

To respond to the change in air demand, connect Vplus and Mtype ,Hitachi provide three patterns of system structure to help you acquire energy-saving.







7





Standard specification sheet (Vtype)

55-75kW VPIUS NEXTIT

55-75KVV	WPLUS	NEA	LLLseries								
item-unit	model		OSP-55VAN2	OSP-75VAN2	OSP-55VWN2	OSP-75VWN2					
cooling method			air c	coled	water cooled						
motor naminal outp	ut	kW	55	75	55	75					
rated discharge pressure		Mpa		0	.7						
rateu	discharge capacity	m³/min	10.1	13.1	10.1	13.3					
PQ wide mode	discharge pressure	Mpa		0.6~0.85							
· G WIGS III.GS	discharge capacity	m³/min	10.6~9.1	14.0~12.0	10.6~9.1	14.0~12.0					
suction pressure t	temperature	-	atmospher ic pressure 0-45°C								
temperature of dis	scharge air	°C	ambient temperature	+15 or below	cool ing water temperature +13 or below						
driving system		-	capling correction								
starter type		-	soft start								
lubricating oi		-	NEW HISCREW OIL NEXT								
Libricating oilfil	linf amount	L	26 (filled)	36 (fi ll ed)	17 (filled)	24 (filled)					
output of ocolling		kW	1.5 inverter control 2.2 inverter control 0.05×2								
discharge air pipe	diameter	-		R	c2						
extenal dimension	(W×D×H)	mm		2000×1200×1800							
weight		kg	1230	1405 1070		1240					
air receiver tank volume m³		m ³	0.7 or over	1.24 or over	0.7 or over	1.24 or over					
ocolling water		°C		•	35 or below						
		L/min		•	100 125						
cooling water pipe	e diameter	-	·	-	Rc2						
noise (1.5m)		dB(A)	64	66	63	65					

110-160kW VPLUS NEXTII series

110-100K	VV WPLO	3 141	_/\ I_ILLSen	25									
item-unit .	n	odel	OSP-110VAN2		OSP-160VAN2	OSP-110VWN2		OSP-160VWN2					
cool ing method		-		air co	oled	water cooled							
motor nominal outp.	t	kW	11	10	160	110 160					110		160
rated	disdarge pressure	Mpa	0.7										
raueo	discharge capacity	m³/min	21	1.5	29.5	21.5		29.5					
PQ wide mode	discharge pressure	Mpa	0.6	0.85	0.95	0.6	0.85	0.95					
PQ WICE IILLE	discharge capacity	m³/min	22.5 19.3		25.2	22.5 19.3		25.2					
suction pressure te	mperature	-				atmospheric pressure 0-45°C							
temperature of disc	harge air	'C		ambient temperature		cooling water temperature +13 or below							
driving system		-				gear drive							
starter type		-	soft start										
ubricating oil		-	NEW HISCREW OIL NEXT										
lubricating oilfill		L		0	115	37		70					
cutput of cooling t		kW	1.5×2 il	werter contro	4.0×2 inverter control	0.05×3		0.2					
discharge air pipe	diameter	-	2-1	/2B	3B	2-1/2B		3B					
exteral dimension(/XDXH)	mm	2550×15	00×1800	2700×2000×1890	2550×1500×1800		2700×2000×1890					
weight		kg	29	00	3900	2800 3750							
air receiver tank	volume	°C		4,0	or over	4.0 or over							
cooling water temperature flow		-				35							
		L/min			-	182							
cooling water pipe	diarreter	-				Rc2							
noise (1.5m)	1. 5m) dB(A) 75 79				79	72		72					

- 1. Capacity is the converted value at its inlet condition. For guaranteed values, contact your nearest dealer or Hitachi local representative offices.

 2. Pressure is indicated as the gauge pressure.
- 3. Temperature of discharge air may vary from different environments.
- 4 For Vplus, when PQ wide mode is ON, may need larger dryer, filter. For more information, contact your nearest dealer or Hitachi local representative offices.
- 5. please use air receiver tank which is recommended, For Mtype (constant speed compressor) to maximize (ECOMODE) energy efficiency, use air receiver tank which is recommended,





Standard specification sheet (Mtype)

55-75kW Mtype NEXTIT series

33-7 3KVV	ivitype		II_III_Seri	es										
iterunit	mo	del	OSP-55M5AN2			OSP-75M5AN2			OSP-55M5WN2			OSP-75M5WN2		
cool ing method		-		air cooled water cooled										
motor nominal output		kW		55			75 55 75							
rated	discharge pressure	Mpa	0.7	0,85	1,0	0.7	0.85	1,0	0.7	0,85	1.0	0.7	0.85	1.0
	discharge capacity	m³/min	10.0	9.0	8.3	13.2	11.9	10.9	10.0	9.0	8.3	13.2	11.9	10.9
Po wide mode	disderge pressure	Mpa									-			
ru was nas	discharge capacity	m³/min		-			-		-		-			
suction pressure te	perature	-					atmosph	eric pressure	0-45°C					
temperature of disd	nange air	"C		arbient temperature +15 or below						ccoling wa	ter temperature	+13 or belo	W	
driving system								gear	ear drive					
starter type		-	standelta											
ubricating oi		-						New HISCRE	W OIL NEXT					
lubricating oil fil	inf arount	L		27 (filled) 38 (filled)					17 (filled)			24 (filled)		
output of acoling fa	n	kW		1.5 inverter control 2.2 inverter control							0.0	5×2		
discharge air pipe		-	F						c2					
exteral dimension(W	×D×H)	mm	2000×1						00×1800					
weight		kg	1520		1800			1360 1640						
air receiver tank	olune	m ³		1.24 or ove			1.24 or ow	r	1.24 or over 1.24 or over					r
cool ing water		°C							35or bellav					
		L/min		-					100		125			
cooling water pipe of	liameter	-							Rc2					
noise (1.5m)		dB(A)		65			67		64		66			

110-160kW Mtype NEXTIT series

TTU-TOUK	ιν ινιιγρο		A I III series								
item-unit model			OSP-110M5AN2	OSP-132M5AN2	OSP-160M5AN2	OSP-110M5WN2	OSP-132M5WN2	OSP-160M5WN2			
ccolling method		-		air cooled			water cooled				
motor nominal output		kW	110	132	160	110	110 132 160				
notor type - 4enclosed external fan notor											
rated	discharge pressure	Mpa		0.75 (0.85) [1.0]			0.75 (0.85) [1.0]				
rausu	discharge capacity	m³/min	21.5 (20.4) [17.0]	25.5 (23.3) [21.0]	29.5 (27.2) [24.5]	21.5 (20.4) [17.0]	25.5 (23.3) [21.0]	29.5 (27.2) [24.5]			
suction pressure ten	perature	-			atmospheric pressure	0-45°C					
temperature of disch	nange air	°C	ambie	nt temperature +15 or below		cooling wat	er temperature +13 or bellow				
driving system		-			star-delta	a .					
starter type		-			gear drive						
lubricating oi		-			New HISCRE	EW OIL NEXT					
lubricating oilfilli	inf arount	L	50	105	115	37	65	70			
output of cooling fa	an .	kW	1.5×2 inverter control	4.0×2 in	verter control	0.05×3	0	.2			
discharge air pipe o	diameter	-	2-1/2B	3	В	2-1/2B	3	В			
external dimension(W	×D×H)	mm	2550×1500×1800	2700×18	00×1890	2550×1500×1800	2700×18	100×1890			
weight		kg	2800	3450	3600	2700 3300 3420					
air receiver tank v	eceiver tark volume m³ 2.0 or over 4.0 or over 2.0 or over 4.0 or over							or over			
and Consistent	tenperature	-				35					
ccoling water	flow	L/min		•		180					
cooling water pipe of	diameter	-				Rc2					
noise (1,5m)		dB(A)	75	77	79	72 72 72					

- 6. client have to prepare breaker

- 7. Grounding must be used separately.

 8. Please use NEW HISOREW Oll NEXT, don't use others

 9. If the imbalance rate of input voltage exceeds 1%, or the power supply capacity is more than 10 times of the motor power and more than 500kVA, an AC reactor should be installed between the power supply and the compressor when the rated load is running.

 10. Use the air compressor at indoor where no explosion, corrosion gas, low temperature, less dust.
- 11. Specificaations and outside view are subject to change without notice.
 12. Noise level is measured value at 1.5m in front and 1m height in a anechoic room, under full load operation. It may vary in different operation conditions or environments.