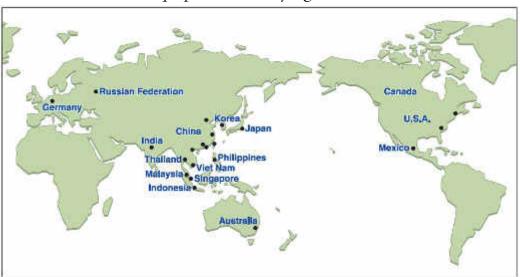
Hitachi industrial equipment(Nanjing) co.,ltd



Hitachi industrial equipment system co.,ltd

http://www.hitachi-iec.cn

Hitachi industrial equipment(China) co.,ltd 2201 room, Rui Jin building No 205, Maoming Road shanghai

TEL: +86-21-5489-2378 FAX: +86-21-3356-5070

1402 room Beijing fortune building 5 dong san huan bei lu chao yang district

TEL: +86-10-6590-8180 FAX: +86-10-6590-8189 Guangzhou office

3003 room Hai hang building TianHe North road,Guangzhou

TEL: +86-20-3877-3819 FAX: +86-20-3877-3820

Hitachi industrial equipment(Hong Kong) co.,ltd

8 floor techology road east 20E, xin jie bai shi jiao, Hong Kong

TEL: +852-2735-9218 FAX: +852-2735-6793

Asia & Oceania Australia

Hitachi Australia Pty Ltd. Level 8, 123 Epping Road, Macquarie

Park NSW 2113

TEL: +61 (2) 9888-4100 FAX: +61 (2) 9888-4188

Taiwan Hitachi Asia Pacific Co., Ltd. 3th Floor, No. 167, Tun Hwa N. Road, Hung-Kuo Building, Taipei 10512, Taiwan

TEL: +886 (2) 2718-3666 FAX: +886 (2) 2718-8180

India Hitachi India Pvt. Ltd. Units 304-308. 3nd Floor, ABW Elegande Tower, Jacob Decret Centre, New Dehi 110 025, India TEL: +91 (11) 4000-5262

FAX: +91 (11) 4060-5253

Indonesia PT Hitachi Asia Indonesia Menara BCA 38" Ficor Suite #3804 & 3805 J. M. H Thamrin No.1. Jakarta 10310, Indonesia TEL: +62 (21) 2358-6757 FAX: +62 (21) 2358-6755

Hitachi Asia (Malaysia) 5dn. Bhd. Suite 17.3. Level 17, Menara IMO (Letter Box No.5) No. 8 Julian Sultan Ismail, 50250, Kuela Lumou

Philippines
Hitachi Asia Ltd. (Philippines Office)
17th Roor Oleden Square
6768 Aprila Avenue.
Wakati City. Philippines 1225

Group) No.30, Planeer Crescent #10-15, West Park Bizcentral Singapore 628550 TEL: +65-6305-7400 FAX: -65-6305-7401

Hitachi Asia (Thalland) Co., Ltd.

18th Floor, Rameland Building, 952 Rame IV Road Bengrak, Bangkok 10500 TEL: +88 (2) 632-9292 FAX: -68 (2) 632-9298

Vist Nam Historii Asia Lid. (ho Chi Minh City Office) 4th Floor. The Landmark. 5B Ton Duc Trang Street Cetted. 1, Ho Chi Minh City TEL: 148 (a) 829-9729 Ha No. CITY. (Ha Noi Office) Sun Red River Bldg., 5th Floor, 23 Pron Chu Trinh Street Hoan Klein District, Hand TEL: +84 (4) 903-3123 FAX: #4 (4) 933-3125

Germany Hitachi Europe CmtiH

(Industrial Components & Equip Group) Am Seestern 15 (Euro Center) D-40547 Cüsseldorf

TEL: +49 (211) 5283 0 FAX: +49 (211) 5283 649

Hitachi, Ltd. (Mosoow Office) Millenium House, 12, Trubnaya, Moscow

TEL: +7 (095) 787-4022, -4029 FAX: +7 (085) 787-4021

Mexico Hitachi Mexico, S.A. de C.V. Andres Ballo No.10 Plac 10 Col. Chapultepec Polanco 11500, Mexico, D.F. TEL: +52 (55) 5282-6040

FAX: +52 (55) 5282-9042

North America Hitachi America, Ltd.

Brownial Components & Equipment Divisioni 50 Prospect Avenus, Terrytown, New York, 10501-4698 TEL: +1(914) 332-5800 FAX: +1(914) 332-5555 (Charlotte Office) (Industrial Components & Equipment

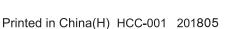
Division) 9901 Northpark Blvo., Charlotte, NC 28218 TEL: +1(704) 494-3008 FAX: +1(704) 494-3808

• 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



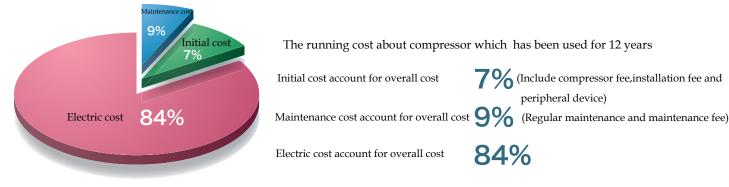
HISCREW

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

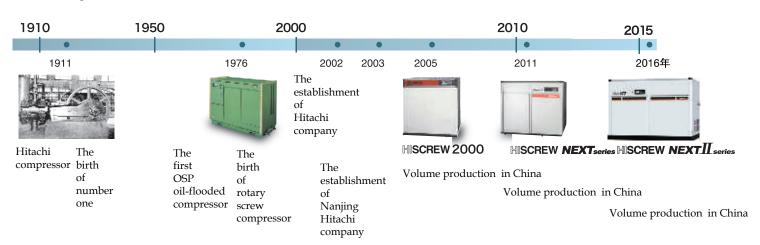
Over 100 years of compressed air experience ,Hitachi has been and continues to be the technology leader via continuous innovation of air compressor technology oriented towards customer value.

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 customer.

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 — HISCREW NEXT II 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 ${\mathbb I}$ series will undoubtedly match your requirements for air compressors.



New Developed Air -end

Hitachi latest innovation of air-end technology Rotary screw type air-end with significant improvement of air capacity

Rotor from Hitachi design

PQ wide mode

HISCREW NEXT II series

Conventional NEXT

Set at 0.7MPa 55 **kW**

(m³/min)

110 **kW**

(m³/min)

₩Mtyne(0 85MPa)compare

₩V PLUS (0.7MP) compare

75 **kW**



Hitachi DCBL compare to other

Energy-saving — DCBLMOTOR—

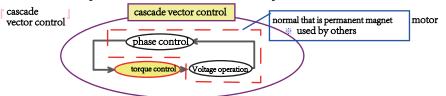
DCBL

→ Energy-saving

Through independent capacity control to enlarge energy-saving

Vtype DCBL motor is developed by Hitachi , the air-out pressure is under $\pm\,0.01$ 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

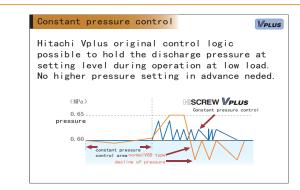


The difference between permanent magnet motor and induction motor



Intelligent control

Rapidly air-out contro With the development of synthetic oil for compressor, we develop this function in order to reduce the bubbles (MPa) Oil tank pressure cause by pressure down.also shorten 0.7 time for unload, air-out, restart , solve the pressure problem when load increase after shut



Long term maintenance cycle & easy maintenance

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



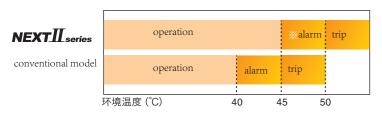




High reliability

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

 $\ensuremath{\,\%\,}$ condition : yearly running time under 6000 hr,1MPa is 4 years

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



20L

IPC control (intelligent pressure control)

PLUS 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

Patent JP : 4425768

Example of effect by IPC

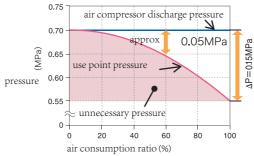
*Air compressor:OSP-160VAN2 *Control pressure setting:0.70MPa *Use point pressure during full load:0.55MPa *Piping pressure loss during full load:0.15MPa

Graph of pressure change (Theoretical values)

① IPC-OFF (conventional inverter control model)

2 IPC-ON(next II series)

•control the air compressor discharge pressure at 0.70MPa



ompressure of 0.55MPa

ocontrol the use point pressure at 0.55MPa

offect by energy saving air compressor discharge pressure

offect by energy saving air compressor discharge pressure

offect by energy saving air compressor discharge pressure

offect by energy saving air compressor

of

ondition:air
compressor ratio 60%
energy
consu
mptio 92
n ratio 90

IPC-OFF IPC-ON

due to estimation control, use point pressure varies in accordance with use conditions

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, customers use data to 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.

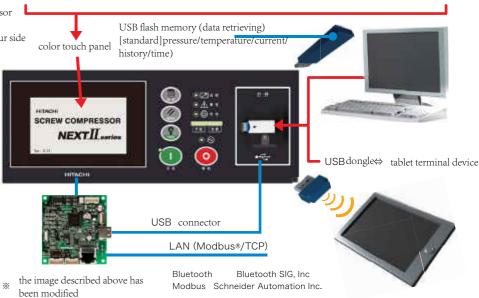
*necessary to prepare a bluetooth USB dongle on your side *for setting changes,part of the items are applicable

Modbus

Open network serial communication Modbus/ RTU is supported as standard

*Modus/TCP support is optional

menu monitor indication notice indication O. 70 正行時間 2500 hr 上時运行時止 78 ℃ 日 10 00 USB flash memory (data retrieving) [standard]pressure/temperature/current/history/time)



Multi-function touch panel

Various function available

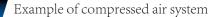
main function

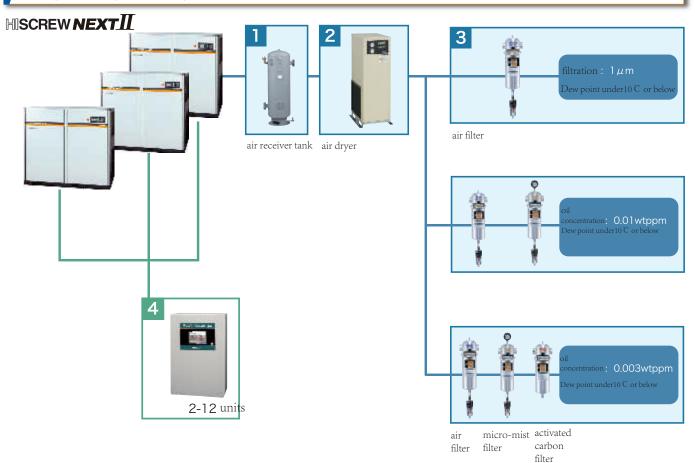
energy-saving operation/schedule operation(weekly time)/instantaneous power interruption restart function/alternate operation(option)/auto operation/communication function/web serve function/store/load of setting/maintenance time notification

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	ПЛ	
(kW)	STANDARD	ECOMODE	VPLUS
55	1.24	1.24	0.70
75	1,24	2,26	1.24
110	2.26	4.0	4,0
132	4.0	8.0	4.0
160	4,0	8.0	4,0

2 Air dryer

Dry air of higher quality

A rich line-up for your choice

3 Line filter

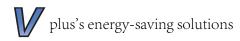
Various types of filter(air filter, micro-filter, activated carbon filter)

4 Multi-unit control panel(multi roller EX)

Energy-savinf

Easy-to-read LCD touch panel equipped

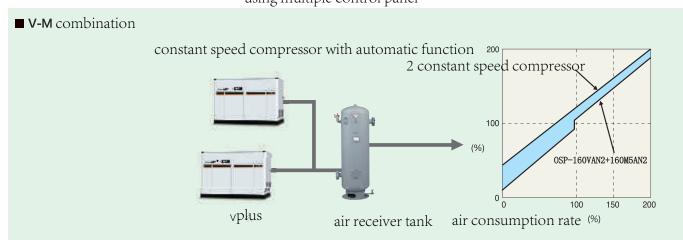
Note: for detailed information of above auxiliary equipment, contact your nearest dealer or Hitachi local representative offices.

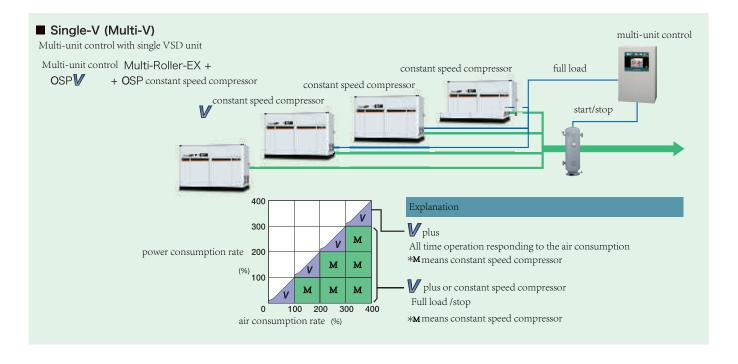


Energy-saving solutions

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 VPLUS NEXTIT series

JJ-7 JKVV	W PLU3	NLA	LILseries						
it am unit	munit model		OSP-55VAN2	OSP-75VAN2	OSP-55VWN2	OSP-75VWN2			
colling method -			air o	coled	water cooled				
motor nominal output kW			55	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						
r with little	discharge capacity	m³/min	10.6~9.1	14.0~12.0	10.6~9.1	14.0~12.0			
suction pressure t	tenperature	-	atrospher ic pressure 0.45°C						
emperature of discharge air °C			ambient temperature	+15 or below	cooling water temperature +13 or below				
riving system		-	coupling connection						
starter type		-	soft start						
ubricating oil		-	NEW HISCREW OIL NEXT						
ubricating oilfillinf amount		L	26 (filled)	36 (filled)	17 (filled)	24 (filled)			
utput of cooling		kW	1.5 inverter control 2.2 inverter control 0.05×2						
ischarge air pipe		-		Rc2					
external dimension (WXDXH) mm			2000×1200×1800						
<i>n</i> eight		kg	1230	1405	1070	1240			
ir receiver tank	volume	m ³	0.7 or over	1.24 or over	0.7 or over	1.24 or over			
cooling water		°C		-	35 or below				
		L/min		-	100 125				
coling water pipe	e diameter	-		<u>-</u>	Rc2				
noise (1.5m)		dB(A)	64	66	63	65			

110-160kW VPLUS NEXTIL SORIOS

TTU-TOUK	W WPLU	5 141	I III seri	es					
itemunit	munit model		OSP-110VAN2		OSP-160VAN2	OSP-110VWN2		OSP-160VWN2	
cooling method		-	air cooled			water cooled			
otor nominal output kW			110		160	110		160	
discharge pressure		Mpa	0.7						
	discharge capacity	m³/min	21.5		29.5	21.5		29.5	
PQ wide mode	discharge pressure	Мра	0.6	0.85	0.95	0.6	0.85	0.95	
r & wide libbs	discharge capacity	m³/min	22.5	19.3	25.2	22.5	19.3	25.2	
suction pressure to	mperature	-	atmospher ic pressure 0-45°C						
temperature of discharge air °C			ambient temperature +15 or below			cooling water temperature +13 or below			
driving system		-	gear drive						
starter type		-	soft start						
lubricating oil -			NEW HISCREW OIL NEXT						
lubricating oilfillinf amount		L	50		115	37		70	
output of cooling fan ki		kW	1.5×2 inverter control		4.0×2 inverter control	0.05×3		0.2	
discharge air pipe diameter -			2-1/2B		3B	2-1/2B		3B	
external dimension(WXDXH) mm		mm	2550×1500×1800		2700×2000×1890	2550×1500×1800		2700×2000×1890	
veight kg		2900		3900	2800		3750		
air receiver tank volume °C			4.0 or over			4.0 or over			
	temperature	-				35			
	flow	L/min			-	182			
cooling water pipe	diameter	-				Rc2			
noise (1.5m)		dB(A)	75		79	72		72	

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

75 0.85 1.0 11.9 10.9						
0.85 1.0 11.9 10.9						
0.85 1.0 11.9 10.9						
11.9 10.9						
-						
-						
atmospheric pressure 0-45°C						
+13 or below						
24 (filled)						
Rc2						
2000×1200×1800						
1640						
1.24 or over						
35or below						
125						
Rc2						
66						
cooling water temperature +13 or below						

110-160kW Mtype NEXTI series

I IU-IUUKI	γη ινιιγμο	NL	A I_IL series						
item-unit model			OSP-110M5AN2	OSP-132M5AN2	OSP-160M5AN2	OSP-110M5WN2	OSP-132M5WN2	OSP-160M5WN2	
cooling method -			air ccoled			water cooled			
motor nominal output					160				
motor type -			4erclosed external fan notor						
discharge pressure		Мра	0.75 (0.85) [1.0]			0.75 (0.85) [1.0]			
rated	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 temperature -			atmospher ic pressure 0-45°C						
temperature of discharge air °C			ambient temperature +15 or below			cooling water temperature +13 or below			
driving system -			star-delta						
starter type -			gear drive						
lubricating oil -			New HISCREW OIL NEXT						
lubricating oilfillinf amount L		L	50	105	115	37	65	70	
output of cooling fan kW		1.5×2 inverter control	4.0×2 ir	verter control	0.05×3 0.2				
discharge air pipe diameter -		2-1/2B	3	В	2-1/2B	3B			
external dimension (WXDXH) mm		2550×1500×1800	2700×18	00×1890	2550×1500×1800	2700×1800×1890			
weight kg		kg	2800	3450	3600	2700	3300	3420	
air receiver tark volume m³			2.0 or over	4.0	or over	2.0 or over	4.0 or over		
P .	temperature	-				35			
cooling water	flow	L/min		-		180			
cooling water pipe diameter -							Rc2		
noise (1.5m) dB(A)		dB(A)	75	77	79	72	72	72	

- 6. client have to prepare breaker
- 7. Grounding must be used separately.
- 7. Grounding must be used separately.
 8. Please use NEW HISCREW OIL 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.