

HITACHI
Inspire the Next

OILFREE SCREW
AIR ZEUS

NEXT II series

(60–450kW)



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)

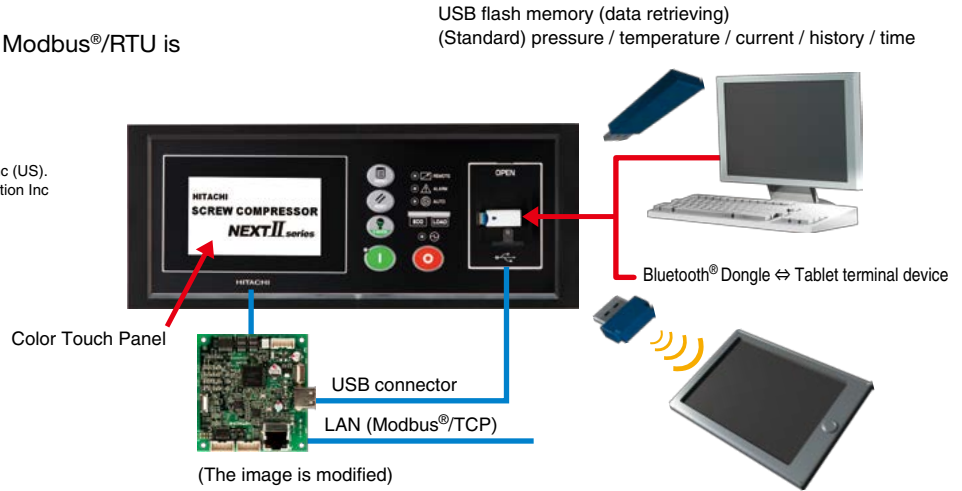
Web Server Function via Bluetooth®

*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



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

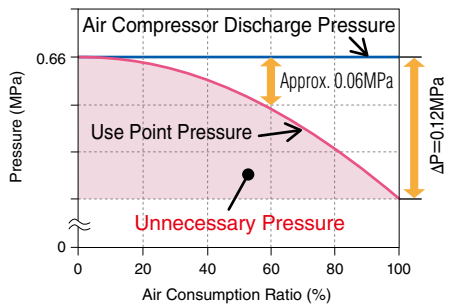
Example of effect by IPC

- Conditions**
- Air compressor: SDS-280N2
 - Control pressure setting: 0.66MPa
 - Use point pressure during full load: 0.54MPa
 - Piping pressure loss during full load: 0.12MPa

Graph of pressure change (Theoretical values)

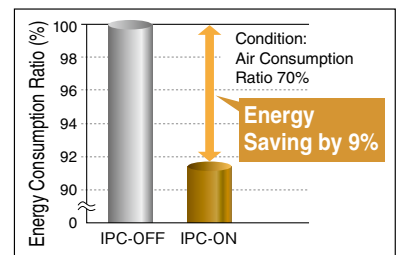
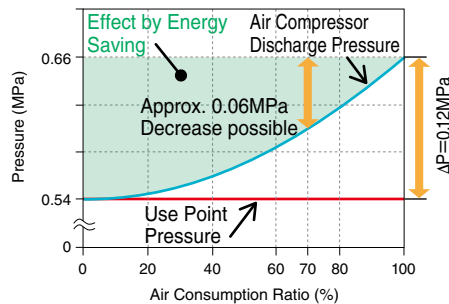
① IPC-OFF

• Control the air compressor discharge pressure at 0.66MPa

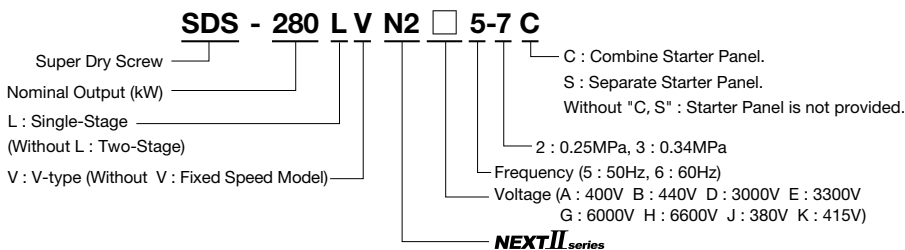


② IPC-ON

• Control the use point pressure at 0.54MPa



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



SDS-NEXTII series Standard Specifications (Fixed Speed) (Two-Stage)

Fixed Speed (50Hz) SDS-200-280N2□5

Model		SDS-200N2□5			SDS-225N2□5			SDS-250N2□5			SDS-280N2□5			
Item · Unit	Discharge Pressure	MPa	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03
	Capacity	m ³ /min	37.4	30.4	28.0	41.3	35.0	31.7	46.2	39.3	36.0	51.8	44.5	41.2
	Intake Air Press. / Temp.	-	Atmospheric Pressure / 0 - 40°C											
	Driving Method	-	Direct Connection with Motor + Gear Driving											
	Discharge Temperature	°C	Cooling Water Temperature + 8 or below											
	Discharge Pipe Diameter	B	3 (Flange)											
	Amount of Cooling Water	L/min	383	383	383	417	417	417	450	450	467	500	500	517
		m ³ /h	23	23	23	25	25	25	27	27	28	30	30	31
	Cooling Water Temperature	°C	32 or below											
	Cooling Water Pipe Diameter	B	2 1/2 (Flange)											
	Motor Nominal Output	kW	195	195	190	220	220	220	250	250	250	280	280	280
	Motor Type	-	4-Pole TEFC Flange Motor											
	Starting Type	-	Reactor											
	Oil Pump Output	kW	2.2											
	Lubricating Oil Capacity	L	90 (Not filled)											
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	6,300 <5,700> [6,400 <5,800>]											
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	3,800×1,700×2,150 <2,800×1,700×2,150>											

Fixed Speed (50Hz) SDS-325-450N2□5

Model		SDS-325N2□5			SDS-360N2□5			SDS-400N2□5			SDS-450N2□5			
Item · Unit	Discharge Pressure	MPa	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03
	Capacity	m ³ /min	60.5	51.5	46.7	66.2	58.2	52.6	73.0	65.5	59.9	81.8	72.7	66.7
	Intake Air Press. / Temp.	-	Atmospheric Pressure / 0 - 40°C											
	Driving Method	-	Direct Connection with Motor + Gear Driving											
	Discharge Temperature	°C	Cooling Water Temperature + 8 or below											
	Discharge Pipe Diameter	B	4 (Flange)											
	Amount of Cooling Water	L/min	567	583	617	617	650	683	700	717	733	767	800	833
		m ³ /h	34	35	37	37	39	41	42	43	44	46	48	50
	Cooling Water Temperature	°C	32 or below											
	Cooling Water Pipe Diameter	B	3 (Flange)											
	Motor Nominal Output	kW	320	320	310	350	360	350	390	410	395	440	455	435
	Motor Type	-	4-Pole TEFC Flange Motor											
	Starting Type	-	Reactor											
	Oil Pump Output	kW	2.2											
	Lubricating Oil Capacity	L	120 (Not filled)											
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	9,200 <8,400> [9,900 <9,100>]											
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	4,400×1,950×2,300 <3,400×1,950×2,300>											

Fixed Speed (60Hz) SDS-200-280N2□6

Model		SDS-200N2□6			SDS-225N2□6			SDS-250N2□6			SDS-280N2□6			
Item · Unit	Discharge Pressure	MPa	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03
	Capacity	m ³ /min	37.0	30.5	28.1	41.7	34.5	31.6	46.8	39.3	35.0	51.9	44.8	41.0
	Intake Air Press. / Temp.	-	Atmospheric Pressure / 0 - 40°C											
	Driving Method	-	Direct Connection with Motor + Gear Driving											
	Discharge Temperature	°C	Cooling Water Temperature + 8 or below											
	Discharge Pipe Diameter	B	3 (Flange)											
	Amount of Cooling Water	L/min	383	383	383	417	417	417	450	450	467	500	500	517
		m ³ /h	23	23	23	25	25	25	27	27	28	30	30	31
	Cooling Water Temperature	°C	32 or below											
	Cooling Water Pipe Diameter	B	2 1/2 (Flange)											
	Motor Nominal Output	kW	195	195	195	220	215	220	250	250	240	280	290	280
	Motor Type	-	4-Pole TEFC Flange Motor											
	Starting Type	-	Reactor											
	Oil Pump Output	kW	2.2											
	Lubricating Oil Capacity	L	90 (Not filled)											
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	6,300 <5,700> [6,400 <5,800>]											
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	3,800×1,700×2,150 <2,800×1,700×2,150>											

Fixed Speed (60Hz) SDS-325-450N2□6

Model		SDS-325N2□6			SDS-360N2□6			SDS-400N2□6			SDS-450N2□6			
Item · Unit	Discharge Pressure	MPa	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03
	Capacity	m ³ /min	60.5	51.5	47.0	65.6	58.4	53.1	73.9	64.8	60.2	81.1	73.2	67.4
	Intake Air Press. / Temp.	-	Atmospheric Pressure / 0 - 40°C											
	Driving Method	-	Direct Connection with Motor + Gear Driving											
	Discharge Temperature	°C	Cooling Water Temperature + 8 or below											
	Discharge Pipe Diameter	B	4 (Flange)											
	Amount of Cooling Water	L/min	567	583	617	617	650	683	700	717	733	767	800	833
		m ³ /h	34	35	37	37	39	41	42	43	44	46	48	50
	Cooling Water Temperature	°C	32 or below											
	Cooling Water Pipe Diameter	B	3 (Flange)											
	Motor Nominal Output	kW	320	320	310	350	360	350	395	405	395	440	460	440
	Motor Type	-	4-Pole TEFC Flange Motor											
	Starting Type	-	Reactor											
	Oil Pump Output	kW	2.2											
	Lubricating Oil Capacity	L	120 (Not filled)											
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	9,200 <8,400> [9,900 <9,100>]											
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	4,400×1,950×2,300 <3,400×1,950×2,300>											

NOTE

- Capacity shows the corresponding values in terms of the suction state of compressor.
- Motor output indicates nominal output.
- Discharge pressure shows gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.
- Protruding objects such as discharge pipe are not included in Dimension.
- [] indicates the weight of 6,000V class model.

SDS-NEXTII series Standard Specifications (Fixed Speed) (Single-Stage)

Fixed Speed (50Hz) SDS-60-135LN2□5

Item-Unit		Model	SDS-60LN2□5		SDS-75LN2□5		SDS-100LN2□5		SDS-120LN2□5		SDS-135LN2□5	
Discharge Pressure	MPa		0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34
Capacity	m³/min		15.9	-	20.8	16.8	26.1	21.6	31.0	25.1	-	29.1
Intake Air Press. / Temp.	-		Atmospheric Pressure / 0 - 40°C									
Driving Method	-		Direct Connection with Motor + Gear Driving									
Discharge Temperature	°C		Cooling Water Temperature + 8 or below									
Discharge Pipe Diameter	B		3 (Flange)									
Amount of Cooling Water	L/min		112	-	140	140	172	168	210	208	-	257
	m³/h		6.7	-	8.4	8.4	10.3	10.1	12.6	12.5	-	15.4
Cooling Water Temperature	°C		32 or below									
Cooling Water Pipe Diameter	B		1-1/2 (Flange)									
Motor Nominal Output	kW		60	-	80	75	100	100	120	115	-	135
Motor Type	-		4-Pole TEFC Flange Motor									
Starting Type	-		Reactor									
Oil pump output	kW		1.5									
Lubricating Oil Capacity	L		90 (Not filled)									
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	5,100 <4,500> [5,200 <4,600>]									
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	3,600×1,700×2,150 <2,600×1,700×2,000>									

Fixed Speed (50Hz) SDS-150-220LN2□5

Item-Unit		Model	SDS-150LN2□5		SDS-160LN2□5		SDS-195LN2□5		SDS-220LN2□5	
Discharge Pressure	MPa		0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34
Capacity	m³/min		38.2	-	45.2	34.5	50.2	42.5	-	47.1
Intake Air Press. / Temp.	-		Atmospheric Pressure / 0 - 40°C							
Driving Method	-		Direct Connection with Motor + Gear Driving							
Discharge Temperature	°C		Cooling Water Temperature + 8 or below							
Discharge Pipe Diameter	B		4 (Flange)							
Amount of Cooling Water	L/min		270	-	290	305	332	353	-	408
	m³/h		16.2	-	17.4	18.3	19.9	21.2	-	24.5
Cooling Water Temperature	°C		32 or below							
Cooling Water Pipe Diameter	B		2 (Flange)							
Motor Nominal Output	kW		150	-	165	160	180	195	-	220
Motor Type	-		4-Pole TEFC Flange Motor							
Starting Type	-		Reactor							
Oil pump output	kW		1.5							
Lubricating Oil Capacity	L		90 (Not filled)							
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	6,000 <5,400> [6,100 <5,500>]							
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	3,800×1,700×2,150 <2,800×1,700×2,150>							

Fixed Speed (50Hz) SDS-230-325LN2□5

Item-Unit		Model	SDS-230LN2□5		SDS-250LN2□5		SDS-285LN2□5		SDS-325LN2□5	
Discharge Pressure	MPa		0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34
Capacity	m³/min		57.9	-	68.7	56.4	78.3	64.0	80.7	72.7
Intake Air Press. / Temp.	-		Atmospheric Pressure / 0 - 40°C							
Driving Method	-		Direct Connection with Motor + Gear Driving							
Discharge Temperature	°C		Cooling Water Temperature + 8 or below							
Discharge Pipe Diameter	B		6 (Flange)							
Amount of Cooling Water	L/min		417	-	458	472	503	535	537	608
	m³/h		25.0	-	27.5	28.3	30.2	32.1	32.2	36.5
Cooling Water Temperature	°C		32 or below							
Cooling Water Pipe Diameter	B		2-1/2 (Flange)							
Motor Nominal Output	kW		230	-	255	250	275	285	290	325
Motor Type	-		4-Pole TEFC Flange Motor							
Starting Type	-		Reactor							
Oil pump output	kW		1.5							
Lubricating Oil Capacity	L		120 (Not filled)							
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	8,600 <7,800> [9,300 <8,500>]							
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	4,400×1,950×2,300 <3,400×1,950×2,300>							

- Capacity shows the corresponding values in terms of the suction state of compressor.
- Motor output indicates nominal output.
- Discharge pressure shows gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.
- Protruding objects such as discharge pipe are not included in Dimension.

Fixed Speed (60Hz) SDS-60-135LN2□6

Item-Unit		Model	SDS-60LN2□6		SDS-75LN2□6		SDS-100LN2□6		SDS-120LN2□6		SDS-135LN2□6	
Discharge Pressure		MPa	0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34
Capacity		m ³ /min	16.0	-	20.9	16.3	25.6	21.5	31.1	25.2	-	29.5
Intake Air Press. / Temp.		-	Atmospheric Pressure / 0 - 40°C									
Driving Method		-	Direct Connection with Motor + Gear Driving									
Discharge Temperature		°C	Cooling Water Temperature + 8 or below									
Discharge Pipe Diameter		B	3 (Flange)									
Amount of Cooling Water		L/min	112	-	140	140	172	168	210	208	-	257
		m ³ /h	6.7	-	8.4	8.4	10.3	10.1	12.6	12.5	-	15.4
Cooling Water Temperature		°C	32 or below									
Cooling Water Pipe Diameter		B	1-1/2 (Flange)									
Motor Nominal Output		kW	60	-	80	75	100	100	120	115	-	135
Motor Type		-	4-Pole TEFC Flange Motor									
Starting Type		-	Reactor									
Oil pump output		kW	1.5									
Lubricating Oil Capacity		L	90 (Not filled)									
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	5,100 <4,500> [5,200 <4,600>]									
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	3,600×1,700×2,150 <2,600×1,700×2,000>									

Fixed Speed (60Hz) SDS-150-220LN2□6

Item-Unit		Model	SDS-150LN2□6		SDS-160LN2□6		SDS-195LN2□6		SDS-220LN2□6	
Discharge Pressure		MPa	0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34
Capacity		m ³ /min	38.2	-	45.5	34.8	50.3	43.0	-	47.2
Intake Air Press. / Temp.		-	Atmospheric Pressure / 0 - 40°C							
Driving Method		-	Direct Connection with Motor + Gear Driving							
Discharge Temperature		°C	Cooling Water Temperature + 8 or below							
Discharge Pipe Diameter		B	4 (Flange)							
Amount of Cooling Water		L/min	270	-	292	305	332	357	-	408
		m ³ /h	16.2	-	17.5	18.3	19.9	21.4	-	24.5
Cooling Water Temperature		°C	32 or below							
Cooling Water Pipe Diameter		B	2 (Flange)							
Motor Nominal Output		kW	150	-	165	160	180	195	-	220
Motor Type		-	4-Pole TEFC Flange Motor							
Starting Type		-	Reactor							
Oil pump output		kW	1.5							
Lubricating Oil Capacity		L	90 (Not filled)							
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	6,000 <5,400> [6,100 <5,500>]							
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	3,800×1,700×2,150 <2,800×1,700×2,150>							

Fixed Speed (60Hz) SDS-230-325LN2□6

Item-Unit		Model	SDS-230LN2□6		SDS-250LN2□6		SDS-285LN2□6		SDS-325LN2□6	
Discharge Pressure		MPa	0.25	0.34	0.25	0.34	0.25	0.34	0.25	0.34
Capacity		m ³ /min	58.3	-	69.5	56.4	78.0	64.9	80.2	72.9
Intake Air Press. / Temp.		-	Atmospheric Pressure / 0 - 40°C							
Driving Method		-	Direct Connection with Motor + Gear Driving							
Discharge Temperature		°C	Cooling Water Temperature + 8 or below							
Discharge Pipe Diameter		B	6 (Flange)							
Amount of Cooling Water		L/min	417	-	462	472	503	542	535	608
		m ³ /h	25.0	-	27.7	28.3	30.2	32.5	32.1	36.5
Cooling Water Temperature		°C	32 or below							
Cooling Water Pipe Diameter		B	2-1/2 (Flange)							
Motor Nominal Output		kW	230	-	255	250	275	285	290	325
Motor Type		-	4-Pole TEFC Flange Motor							
Starting Type		-	Reactor							
Oil pump output		kW	1.5							
Lubricating Oil Capacity		L	120 (Not filled)							
Weight	Starter Panel Mounted <Starter Panel is not Included>	kg	8,600 <7,800> [9,300 <8,500>]							
Dimensions	Starter Panel Mounted <Starter Panel is not Included>	mm	4,400×1,950×2,300 <3,400×1,950×2,300>							

1.Capacity shows the corresponding values in terms of the suction state of compressor.

2.Motor output indicates nominal output.

3.Discharge pressure shows gauge pressure.

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

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

6.Protruding objects such as discharge pipe are not included in Dimension.

SDS-NEXTII series Standard Specifications (Variable Speed)

Variable Speed SDS-185-450VN2 (Two-Stage)

Item-Unit		Model	SDS-185VN2□5 SDS-185VN2□6			SDS-280VN2□5 SDS-280VN2□6			SDS-450VN2□5 SDS-450VN2□6		
Discharge Pressure	MPa		0.7	0.93	1.03	0.7	0.93	1.03	0.7	0.93	1.03
	Capacity	m ³ /min	33.5	30.2	28.0	51.9	44.8	41.0	81.1	73.2	67.4
Intake Air Press. / Temp.		-	Atmospheric Pressure / 0 – 40°C								
Driving Method		-	Direct Connection with Motor + Gear Driving								
Discharge Temperature		°C	Cooling Water Temperature + 8 or below								
Discharge Pipe Diameter		B	2 1/2 (Flange)			3 (Flange)			4 (Flange)		
Amount of Cooling Water	L/min		317	350	350	500	500	517	767	800	833
	m ³ /h		19	21	21	30	30	31	46	48	50
Cooling Water Temperature		°C	32 or below								
Cooling Water Pipe Diameter		B	2 (Flange)			2 1/2 (Flange)			3 (Flange)		
Motor Nominal Output		kW	185	195	195	280	290	280	440	460	440
Motor Type		-	4-Pole TEFC Flange Motor								
Starting Type		-	Inverter								
Oil Pump Output		kW	1.5			2.2			2.2		
Lubricating Oil Capacity		L	90 (Not filled)			90 (Not filled)			120 (Not filled)		
Weight	Starter Panel Mounted	kg	5,450 <4,700>			6,600 <5,700>			<8,400>		
	<Starter Panel is not Included>		3,600×1,700×2,150 <2,600×1,700×2,000>			4,000×1,700×2,150 <2,800×1,700×2,150>			<3,400×1,950×2,300>		
Dimensions		mm									

Variable Speed SDS-120-285LVN2 (Single-Stage)

Item-Unit		Model	SDS-120LVN2□5 SDS-120LVN2□6		SDS-195LVN2□5 SDS-195LVN2□6		SDS-285LVN2□5 SDS-285LVN2□6	
Discharge Pressure	MPa		0.25	0.34	0.25	0.34	0.25	0.34
	Capacity	m ³ /min	31.1	25.2	50.3	43.0	78.0	64.9
Intake Air Press. / Temp.		-	Atmospheric Pressure / 0 – 40°C					
Driving Method		-	Direct Connection with Motor + Gear Driving					
Discharge Temperature		°C	Cooling Water Temperature + 8 or below					
Discharge Pipe Diameter		B	3 (Flange)		4 (Flange)		6 (Flange)	
Amount of Cooling Water	L/min		210	208	332	357	503	542
	m ³ /h		12.6	12.5	19.9	21.4	30.2	32.5
Cooling Water Temperature		°C	32 or below					
Cooling Water Pipe Diameter		B	1-1/2 (Flange)		2 (Flange)		2-1/2 (Flange)	
Motor Nominal Output		kW	120	115	180	195	275	285
Motor Type		-	4-Pole TEFC Flange Motor					
Starting Type		-	Inverter					
Oil pump output		kW	1.5		1.5		1.5	
Lubricating Oil Capacity		L	90 (Not filled)		90 (Not filled)		120 (Not filled)	
Weight	Starter Panel Mounted	kg	5,250 <4,500>		6,000 <5,400>		8,550 <7,800>	
	<Starter Panel is not Included>		3,600×1,700×2,150 <2,600×1,700×2,000>		3,800×1,700×2,150 <2,800×1,700×2,150>		4,600×1,950×2,300 <3,400×1,950×2,300>	
Dimensions		mm						

- 1.Capacity shows the corresponding values in terms of the suction state of compressor.
- 2.Motor output indicates nominal output.
- 3.Discharge pressure shows gauge pressure.

- 4.Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- 5.Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.
- 6.Protruding objects such as discharge pipe are not included in Dimension.

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.

 **Hitachi Industrial Equipment Systems Co., Ltd.**

For further information, please contact your nearest sales representative.