

HDR Series

HITACHI Air Dryer

Provides high quality dry compressed air with high performance.





HDR-22AX



HDR-300AX

Full Line Up

- Wide range of the products (18 types) from 2.5m³/min to 69m³/min to cover 300kW class compressors.
- Less space for installation area (Maximum 42% less space than conventional models).
- Maximum 17% of air capacity improvement for small and medium models.

Various Functions

- Remote control function
- Equipped with failure indication light
- ●IPI (Instantaneous Power Interruption) auto restart function (HDR-15AX to 75AX and HDR-100AE).
- Alarm indication light with LED bar chart, instructing the condition of high pressure in refrigeration cycle (HDR-15AX to 75AX and HDR-100AE).

High Performance and Longer Service Life

- Dew Point is 10°C under pressure condition with 45°C intake air and 30°C ambient temperature (HDR-15AX to 75AX and HDR-100AE).
- Adopted heat exchanger with all stainless steel plate, minimizing the pressure loss.
- Accomplished pressure loss below 1/3 (compared with conventional models) to supply perfect air flow (HDR-15AX to HDR-75AX).
- Longer performance and durability by using stainless steel plate to avoid rust and internal corrosion.
- Cooling air intake filter is standard accessories for air cooled models
 (Optional for HDR-120AX, 150AX and 190AX).

Environmental Friendly

- Energy saving with capacity control system of refrigerating cycle.
- HFC refrigerant R407C is adopted as Zero-Ozone depleting coefficient refrigerant.

STANDARD SPECIFICATIONS

Small and Medium Capacity Models (HDR-15AX to 75AX and HDR-100AE)

Item	HDR-15AX		HDR-	22AX	HDR-	37AX	HDR-	-55AX	HDR-	75AX	HDR-100AE					
Frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60			
Capacity (NOTE)	m³/min	2,5	2,9	4.0	4.3	6.8	7.4	10.8	11.3	15.0	15.7	16.8	17.6			
Output of Applicable Air Compressor	kW	15		22		3	7	5	55	7	'5	100				
Max.compressed air pressure, inlet	MPa		0,97													
Max.compressed air temperature, inlet	ొ	80 60														
Ambient Temperature	°C	5 to 40														
Dew Point	ొ	10 or less under press., Ambient Temp., 30°C														
Supply Voltage (3 phase)	V	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440			
Output Rating	kW	0	.5	1.1		1	.1	2	.2	3	.0	4.6	5.7			
Rated Amps.	А	1.2/1.0	2,1/1,0	2.7/2.3 4.6/2.3		2.7/2.3	4.6/2.3	5.5/4.7	5.5/4.7 9.3/4.7		7.4/6.3 12.4/6.2		17.1/8.6			
Condenser Cooling Method		Air-Cooled by Cooling Fan														
Capacity Control System		Ejector Capillary Tube (Hot gas bypass valve)														
Refrigerant		R407C														
Finish color	. 	lvory														
Air Pipe Connection		Rc1 (Female Thread)				Rc1 • 1/2 (Fe	male Thread)			Rc2 (Fem	ale Thread)	2 Flange (inch)				
Dimensions (W \times D \times H)	mm	303×60	303×603×720		356×513×1,067		3×1,247	356×90	3×1,247	356×90	03×1,489	491×1,323×1,164				
Weight	kg	50 (46)	76 ((74)	89 ((87)	140	(135)	176	(170)	250 (245)				
Accessories							Drain Trap	/ Stop Valve								

NOTE: The air capacity is based on the ambient operating temperature of 30°C, the intake air temperature of 40°C, the intake air pressure of 0,69Mpa, and the pressure dew point of 10°C. The weight, indicated in (), is 220V class,

Large Capacity Models (HDR-120AX/WX to HDR-380AX/WX)

Item		HDR-120AX		HDR-150AX		HDR-190AX		HDR-240AX		HDR-300AX		HDR-380AX		HDR-120WX		HDR-150WX		HDR-190WX		HDR-240WX		HDR-300WX		HDR-380WX	
Frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
Capacity (NOTE)	m³/min	20	23	25	30	32	38	38	45	47	55	59	69	21	25	27	31	35	41	42	49	51	60	64	75
Output of Applicable Air Compressor	kW	- 150			190 240				-	-		150		190		240		-			=				
Max.compressed air pressure, inlet	MPa	0,97								0.93					0,97								0.93		
Max.compressed air temperature, inlet	℃		60																						
Ambient Temperature	°C	2 to 40																							
Dew Point	°C	10 or less under press., Ambient Temp., 32°C																							
Supply Voltage (3 phase)	.V	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/440	380/415	220/44
Output Rating	kW	2.9	3.8/3.6	3.7	4.8/4.7	5.6	6.6/6.5	4.6	5.7/5.6	5.9	6.8/6.8	8.6	10.1/10.0	2.1	2.6/2.5	3.1	3.8/3.7	4.6	5.3/5.2	3.5	4.4/4.3	5.1	5.7/5.7	6.5	7.6/7.5
Rated Amps.	А	6.1/5.6	12.6/6.3	7.7/7.1	15.9/8.0	10.6/9.7	20.3/10.2	9.4/8.6	19.1/9.6	10.5/9.6	21.2/10.6	13.9/12.7	28.9/14.5	4.5/4.1	8.9/4.5	6.3/5.7	12.1/6.1	7.9/7.3	15.4/7.7	7.8/7.1	14.9/7.5	9.3/8.5	18.4/9.2	11.8/10.8	24.5/12
Condenser Cooling Method	-	Air-Cooled by Cooling Fan Water-Cooled													***										
Capacity Control System	170	Capillary Tube (Hot gas bypass valve)																							
Refrigerant	-	R407C																							
Finish color	-												lv	ory											
Air Pipe Connection	inch	2 1/2 Flange 3 Flange					4 Fi	4 Flange 5 Flange				2 1/2 Flange		3 Flange		4 Fla	ange	5 FI		lange					
Dimensions (W \times D \times H)	тт	672×1,2	60×1,276	×1,276 950×1,290			2 1,969×905×1		05×1,583	2,020×1,1		100×1,650	1,650		672×1,260×1,276		950×1,2		90×1,332		1,969×905×1,583 2,02		2,020×1,	0×1,100×1,650	
Weight	kg	2	58	3	72	3	70	5:	57	7	92	8	72	2	:38	3	46	3-	44	5	34	7	792		372
Accessories	-											Dra	in Trap	/ Stop \	/alve										

NOTE: The capacity is based on the ambient operating temperature of 32°C, the inlet air temperature of 40°C, the inlet air pressure of 0,69 MPa, and the pressure dew point of 10°C.

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.

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For further information, please contact your nearest sales representative.

Prior to operation of the Hitachi HDR air dryer, ensure that all operators read and understand the INSTRUCTION MANUAL completely, thereby operating it safely and properly.