



REFRIGERATED AIR DRYER

CDK-CA / CW Series

Inlet Air Temperature 80°C

UL/CE After cooler & Condenser Fan

Provide qualified cooling fans with UL/CE safety certification for long using life.

Reliable Solenoid Valve

DIT's reliable solenoid valve is standard in all models. The discharge and pause timers are adjustable via the CAREL control panel. The flexible and adaptable operation of the valve ensures effective discharge of condensates.

Easy to Operate CAREL Control Panel

The advance digital display allows DIT's dryer operation to be easily monitored at a glance.

MODEL:
CDK-CA 175

Stainless Steel Plate Heat Exchanger

- UL / CE / PED Certified
- Long life time durability
- Corrosion Resistant
- High Thermal Transfer Efficiency
- Compact
- Easy Installation
- Proven and Reliable Quality
- Flexible Flows and Temp / Monitor Option

High Quality Refrigerant Compressor

Hermetic, suction gas is cooled and protected against thermal and current overloads. the compressor is mounted on anti-vibration rubber supports to ensure quiet running of the dryer.



D.I.T REFRIGERATED AIR DRYER

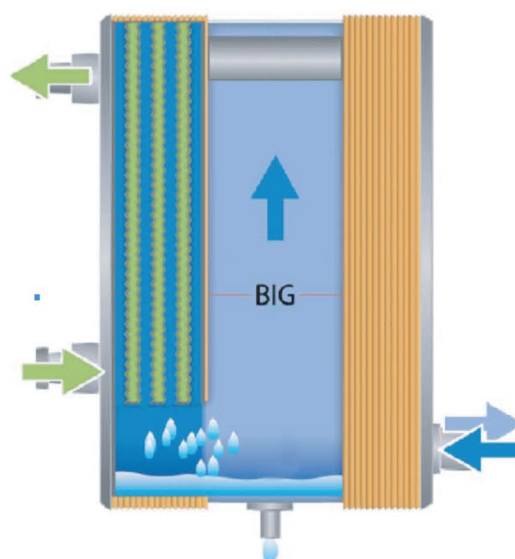
D.I.T Refrigerated Air Dryer offers the best solutions to minimize energy loss, reduce corrosion level, prolong life of compressed air systems and decrease maintenance costs.

About DIT Refrigerated Air Dryer

In compressed air systems, moisture is a huge problem and the prevention of corrosion caused by condensed water is an important issue. This is a critical factor as moisture and corrosion would minimize the performance and shorten the lifetime of compressed air systems and pneumatically controlled tools and equipment. To prevent this problem from occurring, the air dryer is the most commonly used solution. In these kinds of equipment, the main problems which affect the performance of compressed air systems are high volume, high pressure loss and complicated traditional types of heat exchangers which are not efficient. For this, DIT has successfully integrated the Braze Heat Exchanger into our dryer system. This technology is supported by complete research and proven test data and the unique design has enabled DIT to obtain is being patented in France, USA, Taiwan and Southeast Asia.

The main advantage of Plate Heat Exchanger

- A 3 in 1 configuration, the air-to-air exchanger, evaporators and demister separator are combined in one module.
- This ensures a very compact, robust and energy efficient design.
- High efficiency heat transfer performance.
- Unique patents for cross-flow design features with the condensate being separated as soon as it is created along the cooling path.
- Energy saving application due to low pressure drop.
- Simple and easy maintenance.
- Dry air down to 3 °C pressure dew point at outlet



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- Corrosion Resistant
- High Thermal Transfer Efficiency
- Easy Installation
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- Compact

Unique Design Separator

DIT's distinct non-mesh design separator has advantages of lower pressure drop, clogging free, maintenance free, and longer service life than other heat exchangers.

Oil Blockage Free

Patented plate design of evaporator, shorten the flow path of refrigerant by 30%, with the smooth surface of SUS 304, DIT can prevent lubricant oil residual which happens frequently in aluminum plate fin heat exchangers.

No Ice Blockage

With DIT patented plate design of evaporator, condensed water will not remain on the plates, but directly enters to a separation space of the evaporator, which effectively reduce the risk of ice blockage. (Need to check the drain valve regularly)

Equipped with Patented Leakage Testing Connector

Leading and multinational patent technology, exclusively ensures excellent quality of DIT 3-in-1 brazed plate heat exchanger.residual which happens frequently in aluminum plate fin heat exchangers.



Internal UL/CE After cooler
& Condenser Fan

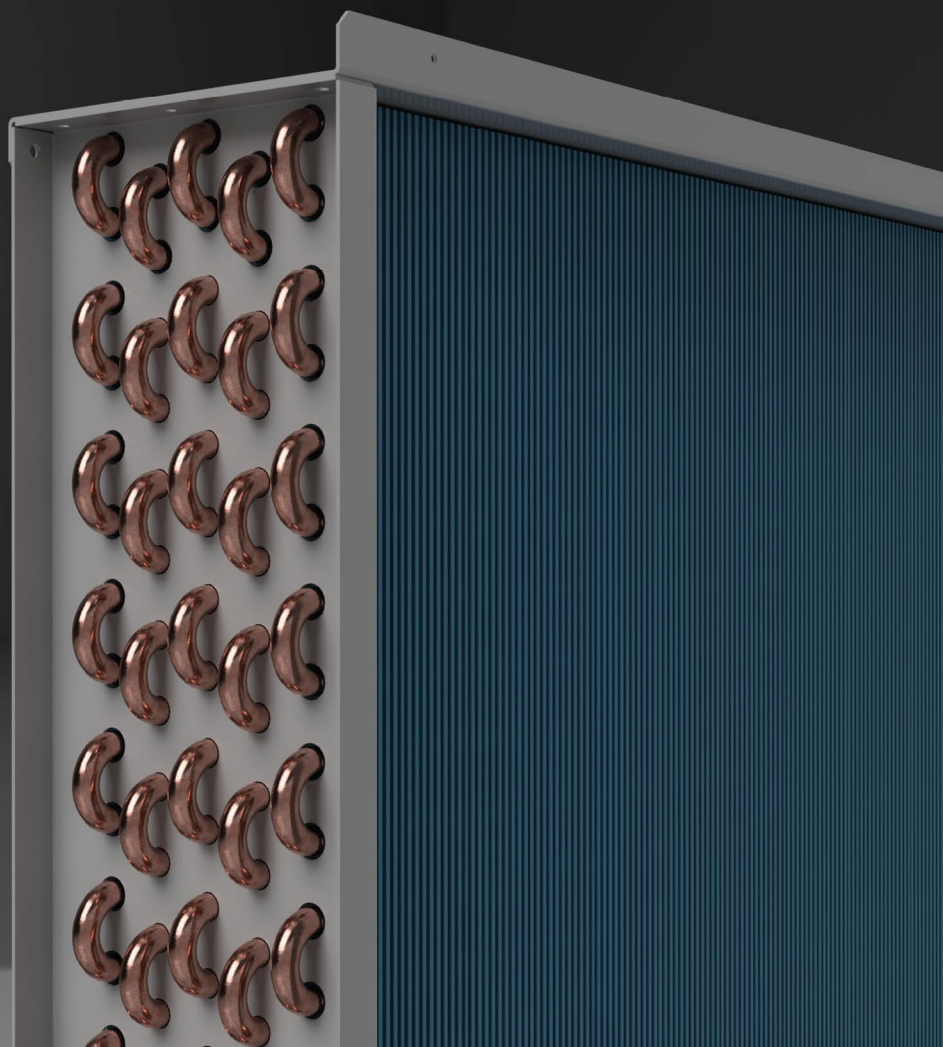
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Powerful Blue Fin Air Condenser

DIT's large surface area heat exchanger contributes to higher performance on our reffridgerated air dryers when compaired to other machines on the market.

Our anti-corrosive blue fins protect the condenser coils from different types of corrosion caused due to moisture, humidity, harsh weather conditions.

While improving the heat transfer process and increasing the cooling capacity, The blue-fin technology enhances the durability and longevity of DIT's Air Dryers.



Easy to Install

DIT's compact design and well-structured component layout provides extreme installation flexibility. The easily accessible components ensure that DIT dryer occupies less valuable plant floor space.



High Quality Refrigerant Compressor

Hermetic, Suction gas is cooled and protected against thermal and current overload. The compressor is mounted on anti-vibration rubber supports to ensure quiet running of the dryer.

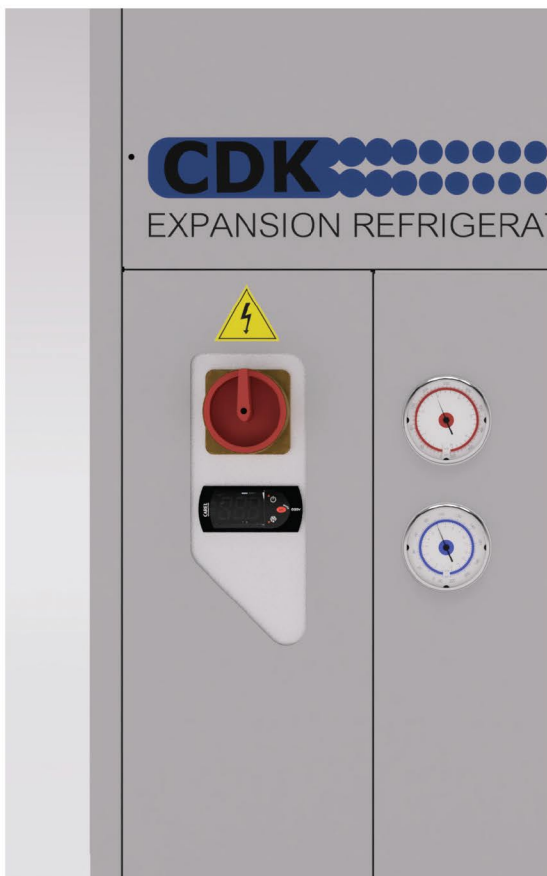
COPELAND | HITACHI | MITSUBISHI

*Compressor brands vary from model to model.



Reliable Solenoid Valve

DIT's reliable solenoid valve is standard in all models. The discharge and pause timers are adjustable via the CAREL control panel. The flexible and adaptable operation of the valve ensures effective discharge of condensates.



Easy to Operate CAREL Control Panel

The advance digital display allows DIT's dryer operation to be easily monitored at a glance.



Use for model:
CDK 3-250



Use for model:
CDK 300-700



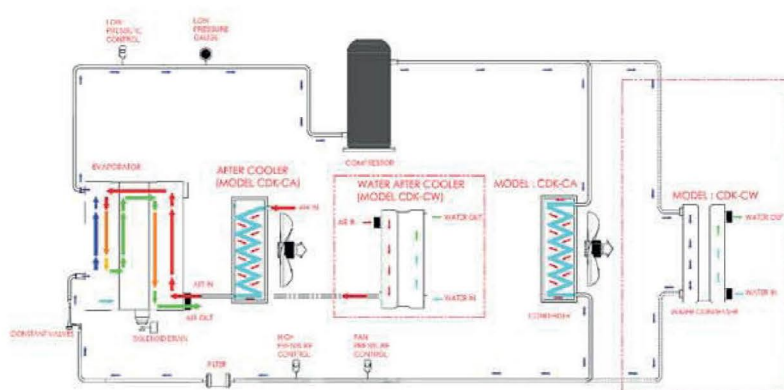
Use for model:
CDK 800 and up

Technical Specifications: CDK-CA | Air Cooled

MODEL	Air Flow		Power Supply V/PH/Hz	Nominal Power (kw)	Connection inch	W.	Dimension (mm)			Weight Kg	Refrigerant	Pressure Bar (max)
	(m³/min)	(CMF)					L.	H.				
CDK-5CA	0.65	23	220/1/50	0.24	1/2" PT	380	500	750		60	R134a	16
CDK-8CA	0.9	32	220/1/50	0.28	1/2" PT	380	500	750		65	R134a	16
CDK-10CA	1.4	49	220/1/50	0.40	1" PT	388	718	880		80	R134a	16
CDK-15CA	1.8	64	220/1/50	0.45	1" PT	388	718	880		88	R134a	16
CDK-20CA	2.7	95	220/1/50	0.60	1" PT	388	718	880		91	R134a	16
CDK-30CA	4.3	152	220/1/50	0.96	1-1/2" PT	388	868	1200		97	R134a	16
CDK-40CA	5.5	194	220/1/50	1.22	1-1/2" PT	388	868	1200		113	R134a	16
CDK-50CA	6.8	240	220/1/50	1.42	1-1/2" PT	388	868	1200		128	R407c	16
CDK-60CA	8.1	286	220/1/50	1.65	2" PT	450	1200	1350		137	R407c	16
CDK-75CA	11	388	220/1/50	1.98	2" PT	450	1200	1350		150	R407c	16
CDK-100CA	15	530	380/3/50	3.00	2-1/2" PT	600	1200	1600		200	R407c	16
CDK-125CA	18	636	380/3/50	3.35	2-1/2" PT	600	1200	1600		230	R407c	16
CDK-150CA	23	812	380/3/50	4.20	2-1/2" PT	600	1200	1600		250	R407c	16
CDK-175CA	28	989	380/3/50	4.85	2-1/2" PT	600	1200	1600		260	R407c	16
CDK-200CA	30	1059	380/3/50	5.17	3" PT	1000	1500	1850		380	R407c	16
CDK-250CA	36	1271	380/3/50	5.50	3" PT	1000	1500	1850		420	R407c	16
CDK-300CA	43	1519	380/3/50	7.37	4" FL	1000	1800	2000		480	R407c	16
CDK-350CA	48	1695	380/3/50	7.96	4" FL	1000	1800	2000		520	R407c	16
CDK-400CA	61	2154	380/3/50	9.55	4" FL	1000	1800	2000		580	R407c	16

Technical Specifications: CDK-CW | Water Cooled

MODEL	Air Flow		Power Supply V/PH/Hz	Nominal Power (kw)	Connection inch	W.	Dimension (mm)			Weight Kg	Refrigerant	Pressure Bar (max)
	(m³/min)	(CMF)					L.	H.				
CDK-100CW	15	530	380/3/50	2.06	2" PT	450	1200	1350		165	R407c	16
CDK-125CW	18	636	380/3/50	2.50	2-1/2" PT	450	1200	1350		198	R407c	16
CDK-150CW	23	812	380/3/50	2.85	2-1/2" PT	450	1200	1350		208	R407c	16
CDK-175CW	28	989	380/3/50	3.30	2-1/2" PT	450	1200	1350		225	R407c	16
CDK-200CW	30	1059	380/3/50	3.95	3" PT	600	1200	1600		256	R407c	16
CDK-250CW	36	1271	380/3/50	4.27	3" PT	600	1200	1600		380	R407c	16
CDK-300CW	43	1519	380/3/50	4.60	4" FL	600	1200	1600		400	R407c	16
CDK-350CW	48	1695	380/3/50	6.27	4" FL	600	1200	1600		450	R407c	16
CDK-400CW	61	2154	380/3/50	6.86	5" FL	650	1204	1350		510	R407c	16
CDK-500CW	72	2543	380/3/50	8.05	5" FL	650	1204	1350		930	R407c	16
CDK-600CW	89	3143	380/3/50	10.30	6" FL	800	1500	1900		1050	R407c	16
CDK-700CW	96	3390	380/3/50	12.30	6" FL	800	1500	1900		1120	R407c	16
CDK-800CW	122	4308	380/3/50	13.75	6" FL	800	1800	1900		1260	R407c	16
CDK-1000CW	144	5085	380/3/50	18.25	8" FL	1200	1850	2000		1580	R407c	16
CDK-1200CW	170	6004	380/3/50	20.60	8" FL	1200	1850	2000		1860	R407c	16
CDK-1500CW	185	6533	380/3/50	24.60	10" FL	1200	1850	2000		2290	R407c	16
CDK-2000CW	285	10065	380/3/50	36.50	12" FL	1200	2400	2100		2400	R407c	16
CDK-2500CW	340	12007	380/3/50	41.20	12" FL	1200	2400	2100		2890	R407c	16



Dryer maximum air flow = Dryer air flow x K1 x K2 x K3 x K4

Correction factor

Ambient temperature °C	28	30	32	35	38	40	42	43
Factor (K1) CDK-CA	1.14	1.10	1.06	1	0.94	0.91	0.88	0.86
Air inlet temperature °C	45	50	55	70	80	-	-	-
Factor (K2)	1.20	1.10	1	0.91	0.83	-	-	-
Working pressure Kg/cm²	4	6	7	8	9	10	13	16
Factor (K3)	0.79	0.94	1	1.05	1.09	1.12	1.2	1.26
Dew point temperature °C	-	3	4	5	6	7	8	10
Factor (K4)	-	0.96	1	1.02	1.03	1.06	1.07	1.09

Water temperature °C	25	26	28	30	32	34	36	37
Factor (K1) CDK-CW	1.14	1.10	1.06	1	0.94	0.91	0.88	0.86

1. CDK-CA & CDK-CW Series Air Inlet Temperature 80 °C (Max.)
2. Dew Point Temperature 3 - 10 °C
3. Ambient Temperature from 5 - 43 °C (Max.)
4. CDK-CA & CDK-CW Series with After Cooler
5. Air In-Out Pressure Drop < 3 Psig
6. 2 Years warranty for Compressor and Evaporator

