

Technical Specification of **CDK-SA** Series Air Cooled Dryers

MODEL		AIR FLOW		Power Supply	Nominla	Connection	Dimension (mm)			Weight	Refrigerant	Pressure
		(m <sup>3</sup> /min)	(CFM)	V / PH / Hz	Power kW	inch	W.	L.	H.	Kg		Bar(Max.)
CDK-3SA	3SA	0.45	16	220/1/50	0.21	1/2" PT	382	450	430	31	R134a	16
CDK-5SA	5SA	0.65	23	220/1/50	0.22	1/2" PT	382	450	430	32	R134a	16
CDK-8SA	8SA	0.9	31	220/1/50	0.37	1/2" PT	382	450	430	33	R134a	16
CDK-10SA	10SA	1.4	49	220/1/50	0.47	3/4" PT	382	502	480	38	R134a	16
CDK-15SA	15SA	1.8	63	220/1/50	0.63	3/4" PT	382	502	480	40	R134a	16
CDK-20SA	20SA	2.7	94	220/1/50	0.84	1" PT	393	723	650	65	R134a	16
CDK-30SA	30SA	4.3	150	220/1/50	0.97	1-1/2" PT	393	723	650	69	R134a	16
CDK-40SA	40SA	5.5	192	220/1/50	1.23	1-1/2" PT	404	875	761	92	R134a	16
CDK-50SA	50SA	6.8	237	220/1/50	1.42	1-1/2" PT	404	875	761	101	R407c	16
CDK-60SA	60SA	8.1	283	220/1/50	1.94	2" PT	451	1190	882	115	R407c	10
CDK-75SA	75SA	11	384	220/1/50	2.51	2" PT	451	1190	882	135	R407c	10
CDK-100SA	100SA	15	524	220/1/50	3.09	2-1/2" PT	451	1190	882	145	R407c	10
CDK-125SA	125SA	18	628	220/1/50	4.09	2-1/2" PT	451	1190	882	165	R407c	10
CDK-150SA	150SA	23	803	380/3/50	4.44	2-1/2" PT	588	1204	1005	198	R407c	10
CDK-200SA	200SA	30	1047	380/3/50	5.68	3" PT	588	1204	1005	225	R407c	10
CDK-250SA	250SA	36	1256	380/3/50	6.29	3" PT	588	1204	1005	256	R407c	10
CDK-300SA	300SA	43	1501	380/3/50	8.86	4" FL	1004	1852	1615	420	R407c	10
CDK-400SA	400SA	61	2129	380/3/50	11.32	5" FL	1004	1852	1615	500	R407c	10
CDK-500SA	500SA	72	2513	380/3/50	12.51	5" FL	1004	1852	1615	570	R407c	10
CDK-600SA	600SA	89	3106	380/3/50	17.69	6" FL	1200	2580	1815	930	R407c	10
CDK-800SA	800SA	122	4258	380/3/50	22.53	6" FL	1200	2580	1815	1120	R407c	10
CDK-1000SA	1000SA	144	5026	380/3/50	25.01	8" FL	1200	2580	1815	1260	R407c	10
CDK-1500SA	1500SA	185	6457	380/3/50	37.74	10" FL	2000	2580	1815	2400	R407C	10

Technical Specification of **CDK-SW** Series Water Cooled Dryers

MODEL		AIR FLOW		Power Supply	Nominla	Connection	Dimension (mm)			Weight	Refrigerant	Pressure
		(m <sup>3</sup> /min)	(CFM)	V / PH / Hz	Power kW	inch	W.	L.	H.	Kg		Bar(Max.)
CDK-100SW	100SW	15	524	220/1/50	2.97	2-1/2" PT	451	602	1300	172	R407c	10
CDK-150SW	150SW	23	803	380/3/50	4.24	2-1/2" PT	451	602	1300	198	R407c	10
CDK-200SW	200SW	30	1047	380/3/50	5.35	3" PT	451	602	1300	257	R407c	10
CDK-250SW	250SW	36	1256	380/3/50	6.01	3" PT	451	602	1300	279	R407c	10
CDK-300SW	300SW	43	1501	380/3/50	8.67	4" FL	700	802	1300	378	R407c	10
CDK-400SW	400SW	61	2129	380/3/50	10.78	5" FL	700	802	1300	502	R407c	10
CDK-500SW	500SW	72	2513	380/3/50	11.67	5" FL	700	802	1300	553	R407c	10
CDK-600SW	600SW	89	3106	380/3/50	16.34	6" FL	800	1204	1400	755	R407c	10
CDK-800SW	800SW	122	4258	380/3/50	21.22	6" FL	800	1204	1400	1001	R407c	10
CDK-1000SW	1000SW	144	5026	380/3/50	22.34	8" FL	800	1500	1500	1270	R407c	10
CDK-1500SW	1500SW	185	6457	380/3/50	34.01	10" FL	1000	2000	1500	1780	R407C	10
CDK-2000SW	2000SW	288	10051	380/3/50	45.68	10" FL	1500	1500	1600	2300	R407C	10
CDK-2500SW	2500SW	330	11517	380/3/50	57.35	12" FL	1500	1800	1600	2850	R407C	10
CDK-3000SW	3000SW	430	15007	380/3/50	69.21	12" FL	1500	2000	1600	3300	R407C	10

Dryers maximum air flow = Dryers air flow x K1 xK2 x K3 xK4

		Correction Factor									
<b>Ambient temperature °C</b>	<b>20</b>	<b>22</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>37</b>	<b>38</b>	<b>40</b>	<b>42</b>	<b>43</b>	
<b>Factor (K1) CDK-SA</b>	<b>1.21</b>	<b>1.18</b>	<b>1.1</b>	<b>1.06</b>	<b>1</b>	<b>0.96</b>	<b>0.91</b>	<b>0.88</b>	<b>0.83</b>	<b>0.78</b>	
<b>Air inlet temperature °C</b>	<b>30</b>	<b>35</b>	<b>38</b>	<b>40</b>	<b>45</b>	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	
<b>Factor (K2)</b>	<b>1.26</b>	<b>1.23</b>	<b>1.2</b>	<b>1.18</b>	<b>1</b>	<b>0.9</b>	<b>0.75</b>	<b>0.63</b>	<b>0.53</b>	<b>0.42</b>	
<b>Working pressure Bar</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>13</b>	<b>16</b>	
<b>Factor (K3)</b>	-	-	<b>0.86</b>	<b>0.96</b>	<b>1</b>	<b>1.03</b>	<b>1.06</b>	<b>1.08</b>	<b>1.09</b>	<b>1.1</b>	
<b>Pressure Dew point °C</b>	-	-	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>10</b>	
<b>Factor (K4)</b>	-	-	<b>0.9</b>	<b>0.96</b>	<b>1</b>	<b>1.02</b>	<b>1.03</b>	<b>1.05</b>	<b>1.07</b>	<b>1.09</b>	

<b>Water temperature °C</b>	<b>20</b>	<b>23</b>	<b>25</b>	<b>26</b>	<b>28</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>	<b>37</b>
<b>Factor (K1) CDK-SW</b>	<b>1.18</b>	<b>1.14</b>	<b>1.1</b>	<b>1.08</b>	<b>1.06</b>	<b>1</b>	<b>0.96</b>	<b>0.91</b>	<b>0.83</b>	<b>0.74</b>

- 1, CDK-SA & CDK-SW Series Air Inlet Temperature 70°C (max.)
- 2, Dew point Temperature 2-10°C
- 3, CDK-SA Ambient Temperature 2-43°C, CDK-SW Water Temperature 18-37°C
- 4, Air Inlet - Outlet Pressure Drop 0.2Bar
- 5, CDK-SA &CDK-SW Stainless plate heat exchanger, CDK-SW Stainless plate condenser

