



IT Cooling Solutions

# Compact Plus DX

Close Control Air Conditioning for  
High-end Applications



# Compact Plus DX – Precision Air Conditioning

If you have to remove high heat loads and are looking for a high quality solution that is also kind to your budget, then you have found the right solution with Compact Plus DX. The units are easy to install and, because they are accessible from the front, can be maintained without problems. Thanks to the compact form, Compact Plus DX fits in every technology room.

And: depending on the performance you need, a STULZ air conditioning system can be flexibly expanded.

Compact Plus DX precision air conditioning units will provide an ideal and economic solution to maximize the cooling efficiency.



- 1 Heat exchanger with filter
- 2 C7000 controller
- 3 Scroll compressors
- 4 Plate-type Condenser
- 5 AC fan with direct drive
- 6 Steam humidifier (optional)
- 7 Adjustable air flow through transformer

The compact Plus DX Units are available as A and G versions.

A version: Cooling system based on the DX principle, in which the heat removed from the room is discharged via an air-cooled condenser.

G version: Cooling system based on the DX principle, in which the heat removed from the room is discharged via an air-cooled plate-type condenser in the air conditioner and released to a cooling medium.

Compact Plus DX (G version)

## The advantages at a glance:

- AC fans with direct drive
- STULZ C7000 controller
- High efficiency Zig-Zag filter and low pressure drop
- Front service access only
- Filter class G4, Refrigerant R407C
- **Options:**
  - C7000 Advanced Regelsystem, Refrigerant R134a, Filter class F5
  - Suitable for connection to all common BMS systems
  - Communication via internet protocols (HTTP/SNMP) SMS or e-mail
  - Alarm notification via GSM modem

# Technical Data Compact Plus DX

<b>CPD xxx A/G single-circuit</b>		<b>181</b>	<b>211</b>	<b>261</b>	<b>291</b>	<b>311</b>	<b>361</b>	<b>401</b>	<b>411</b>	<b>451</b>	<b>531</b>
Air flow	m³/h	6,000	6,700	7,300	7,700	8,000	8,800	9,000	12,800	13,500	15,000
DX cooling capacity (total) <sup>1)</sup> R407C	kW	18.5	21.2	27.6	30.6	31.5	36.4	40.3	42.7	47.4	53.3
DX cooling capacity (sensible) <sup>1)</sup> R407C	kW	18.5	21.2	24.8	26.6	28.3	31.5	33.5	42.7	44.3	49.0
Compressor power <sup>1)</sup> R407C	kW	3.7	4.2	5.5	6.2	6.2	7.2	8.2	8.2	9.3	11.2
DX cooling capacity (total) <sup>1)</sup> R134a	kW	17.9	19.0	23.4	28.2	28.7	31.2	36.5	38.9	-	-
DX cooling capacity (sensible) <sup>1)</sup> R134a	kW	17.9	19.0	23.4	25.7	27.2	29.5	31.9	38.9	-	-
Compressor power <sup>1)</sup> R134a	kW	3.3	3.8	5.0	5.7	5.8	6.3	7.6	7.7	-	-
Max. available ESP	Pa	300	300	210	130	220	60	20	300	300	170
Noise level <sup>2)</sup>	dBA	50.7	53.6	55.8	57.2	56.2	58.3	58.7	55.4	56.9	59.8
Fan absorbed power <sup>3)</sup>	kW	1.6	1.9	2.2	2.3	2.1	2.5	2.5	3.5	3.8	4.5
Weight (A/G)	kg	382/385	383/386	403/408	407/413	489/495	488/496	488/497	570/578	572/580	572/581
Size		1	1	1	1	2	2	2	3	3	3

<b>CPD xxx A/G dual-circuit</b>		<b>402</b>	<b>452</b>	<b>512</b>	<b>552</b>	<b>612</b>	<b>702</b>	<b>802</b>	<b>862</b>	<b>1062</b>
Air flow	m³/h	12,500	13,500	15,400	17,000	17,600	18,100	20,400	22,000	24,100
DX cooling capacity (total) <sup>1)</sup> R407C	kW	41.3	46.3	52.2	54.4	63.0	71.7	83.4	92.1	103.5
DX cooling capacity (sensible) <sup>1)</sup> R407C	kW	41.3	44.0	46.3	51.2	58.3	62.5	73.8	80.1	88.2
Compressor power <sup>1)</sup> R407C	kW	8.4	9.6	11.0	11.0	12.4	14.4	16.4	18.6	22.2
DX cooling capacity (total) <sup>1)</sup> R134a	kW	37.2	41.5	44.0	46.6	57.6	62.1	75.0	-	-
DX cooling capacity (sensible) <sup>1)</sup> R134a	kW	37.2	41.5	44.0	46.6	57.6	58.8	70.5	-	-
Compressor power <sup>1)</sup> R134a	kW	7.8	8.6	10.2	10.0	11.6	12.6	15.2	-	-
Max. available ESP	Pa	300	300	130	130	70	20	300	210	70
Noise level <sup>2)</sup>	dBA	54.8	56.9	60.5	60.6	61.5	62.3	60.6	62.2	64.3
Fan absorbed power <sup>3)</sup>	kW	3.4	3.8	4.7	4.6	4.8	5.1	5.8	6.5	7.5
Weight (A/G)	kg	596/603	596/604	629/637	717/736	725/738	727/739	850/870	852/873	853/875
Size		3	3	3	4	4	4	5	5	5

<b>CPD xxx A/G single-circuit</b>		<b>181</b>	<b>211</b>	<b>261</b>	<b>291</b>	<b>311</b>	<b>361</b>	<b>401</b>	<b>411</b>	<b>451</b>	<b>531</b>
Air flow	m³/h	6,000	6,700	7,300	7,600	8,000	8,500	8,500	12,800	13,500	15,000
DX cooling capacity (total) <sup>1)</sup> R407C	kW	18.5	21.2	27.6	30.6	31.5	36.2	40.0	42.7	47.4	53.3
DX cooling capacity (sensible) <sup>1)</sup> R407C	kW	18.5	21.2	24.8	26.5	28.3	31.0	32.5	42.7	44.3	49.0
Compressor power <sup>1)</sup> R407C	kW	3.7	4.2	5.5	6.2	6.2	7.2	8.2	8.2	9.3	11.2
DX cooling capacity (total) <sup>1)</sup> R134a	kW	17.9	19.0	23.4	28.3	28.7	31.2	36.4	38.9	-	-
DX cooling capacity (sensible) <sup>1)</sup> R134a	kW	17.9	19.0	23.4	25.6	27.2	29.0	31.1	38.9	-	-
Compressor power <sup>1)</sup> R134a	kW	3.3	3.8	5.0	5.7	5.8	6.3	7.6	7.7	-	-
Max. available ESP	Pa	250	230	110	50	150	50	50	250	250	150
Noise level <sup>2)</sup>	dBA	51.7	54.4	56.5	57.4	57.4	58.6	58.6	56.6	58.0	60.7
Fan absorbed power <sup>3)</sup>	kW	1.8	2.2	2.5	2.6	2.4	2.6	2.6	3.8	4.1	4.7
Weight (A/G)	kg	373/376	374/377	394/399	398/404	488/495	488/495	490/496	543/551	545/553	545/554
Size		1	1	1	1	2	2	2	3	3	3

<b>CPD xxx A/G dual-circuit</b>		<b>402</b>	<b>452</b>	<b>512</b>	<b>552</b>	<b>612</b>	<b>702</b>	<b>802</b>	<b>862</b>	<b>1062</b>
Air flow	m³/h	12,500	13,500	14,900	16,800	17,500	18,000	21,200	22,400	24,000
DX cooling capacity (total) <sup>1)</sup> R407C	kW	41.3	46.3	52.1	54.6	62.8	71.5	84.0	92.4	103.7
DX cooling capacity (sensible) <sup>1)</sup> R407C	kW	41.3	44.0	45.6	50.9	58.1	62.3	75.5	80.9	88.1
Compressor power <sup>1)</sup> R407C	kW	8.4	9.6	11.0	11.0	12.4	14.4	16.4	18.6	22.2
DX cooling capacity (total) <sup>1)</sup> R134a	kW	37.2	41.5	43.8	46.7	57.4	61.9	76.5	-	-
DX cooling capacity (sensible) <sup>1)</sup> R134a	kW	37.2	41.5	43.8	46.7	57.4	58.6	72.5	-	-
Compressor power <sup>1)</sup> R134a	kW	7.8	8.6	10.2	10.0	11.6	12.6	15.2	-	-
Max. available ESP	Pa	250	250	160	170	100	50	230	160	50
Noise level <sup>2)</sup>	dBA	56.0	58.0	60.6	60.5	61.6	62.3	62.3	63.5	64.9
Fan absorbed power <sup>3)</sup>	kW	3.6	4.1	4.7	4.6	4.9	5.1	6.5	7.1	7.9
Weight (A/G)	kg	569/576	569/577	602/610	695/714	705/716	705/717	813/836	815/838	820/840
Size		3	3	3	4	4	4	5	5	5

Remarks: All data apply at 400 V/3 ph/50 Hz with 20 Pa ESP (external static pressure) for downflow units and 50 Pa ESP for upflow units

<sup>1)</sup> Return air conditions: 24°C, 50% r. h.; condensing temperature 45°C

<sup>2)</sup> Noise level at 2 m distance, free field

<sup>3)</sup> The electric power input of the fans must be added to the room load

<b>Humidifier output and heating capacity</b>						
Size		1	2	3	4	5
Max. humidifier capacity	kg/h	8	8	15	15	15
Max. no of heating steps		2	2	2	2	3
Max. overall heating capacity	kW	12	18	18	18	27
Width	mm	1,000	1,400	1,750	2,150	2,550
Height	mm	1,980	1,980	1,980	1,980	1,980
Depth	mm	890	890	890	890	890
Number of fans		1	1	2	2	3

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## IT Cooling Solutions

### Close to you all over the world.

... With specialist, competent partners in our subsidiaries and exclusive sales and service partners around the world. Our five production sites are in Europe, North America and Asia.