

STULZ the natural choice

# Compact DX

## Close Control Air Conditioning for High-end Applications





## Modern Close Control Air Conditioning – Highly Efficient, Space-Saving and Cost Effective

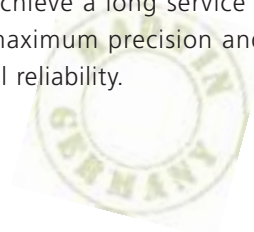
If you have to remove high heat loads and are looking for a high-quality solution that is also kind to your budget, then you have found the right solution with Compact DX. The units are easy to install and, because they are accessible from the front, can be maintained without problems. Thanks to the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

And: depending on the performance you need, a STULZ air conditioning system can be flexibly expanded to up to 31 units of varying sizes.

### **STULZ Branded Quality for Maximum Reliability and Precision**

Just like all close control air conditioning units from STULZ, the Compact DX series is manufactured using high-quality materials, com-

ponents and state-of-the-art production technologies. This means that you achieve a long service life with maximum precision and operational reliability.

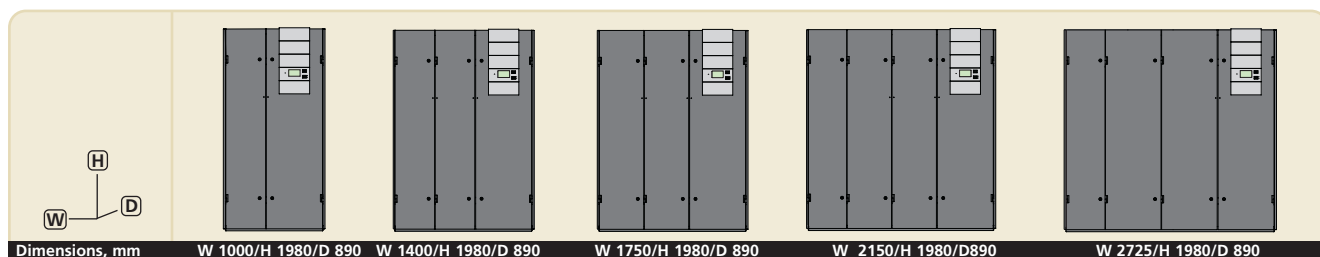




Picture: IBM Deutschland GmbH - Cover picture: Sun Microsystems

## Technical specifications

Type CSD/CSU xxx A/G		171	201	271	301	351	352	431	442	521	542	602	652	702	852	1052
<b>Technical Data:</b>																
Cooling capacity, total <sup>1)</sup>	kW	17.4	19.5	27.3	31.5	35.0	36.1	45.0	46.3	53.2	54.5	63.3	69.6	72.0	87.3	104.3
Cooling capacity, sensible <sup>1)</sup>	kW	17.4	19.5	27.3	29.9	33.2	36.1	45.0	42.9	49.5	51.3	59.3	61.2	65.1	76.7	88.7
Airflow	m <sup>3</sup> /h	5,500	6,500	8,300	8,500	10,000	10,000	12,800	11,900	14,000	14,500	17,300	18,000	18,500	21,000	24,000
Compressor absorbed power	kW	3.6	4.2	5.3	6.4	7.2	7.2	9.2	9.6	11.0	11.2	12.8	14.4	14.4	18.4	22.0
<b>Downflow</b>																
Max. av. ESP	Pa	450	450	250	220	170	290	170	110	220	160	170	190	200	220	200
Fan absorbed power	kW	1.5	2.4	1.9	2.0	3.3	1.8	3.7	3.0	4.8	5.3	6.9	7.8	4.3	6.2	9.2
<b>Upflow</b>																
Max. av. ESP	Pa	300	300	280	250	210	280	160	260	200	300	150	100	300	150	120
Fan absorbed power	kW	1.4	2.3	1.9	2.0	3.2	2.0	4.0	3.3	5.2	5.8	7.4	9.0	5.1	7.3	10.8
Max. no. of heating steps		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Heating capacity Step 1	kW	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9
Heating capacity Step 2	kW	4	4	4	4	4	4	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9	4/9
Heating capacity Step 3	kW	4	4	4	4	4	4	4	4	4	4	4	4	4/9	4/9	4/9
Max. total heating capacity	kW	12	12	12	12	12	18	18	18	18	18	18	18	27	27	27
Humidifier capacity (max.)	kg/h	5	5	8	8	8	8	8	8	8	8	8	8	15	15	15
Approx. weight A	kg	365	370	380	390	395	540	560	550	580	570	790	800	825	840	870
Approx. weight G	kg	385	390	410	420	430	580	605	600	615	620	835	845	885	900	930
Width	mm	1,000	1,000	1,400	1,400	1,400	1,750	1,750	1,750	1,750	1,750	2,150	2,150	2,725	2,725	2,725
Height	mm	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980
Depth	mm	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890
Note: All data valid for 400 V/3 ph/50 Hz with 20 Pa ESP (external static pressure) at downflow units and 50 Pa ESP at upflow units																
<sup>1)</sup> Cooling capacity at Return Air: 24 °C, 50% r. H.; Condensing temperature: 45 °C																





C7000 Advanced



C7000 Plus

## Many Options for Individual Adaptation

Every task makes its own specific demands. The close control air conditioning units meet most of them. Even in the standard version in the case of the Compact DX. Furthermore, the following options are available:



### Mechanical and general options

- » Special paint finishes
- » Raised floor stand
- » Dampers
- » Flexible duct connection
- » Fresh air connection
- » High efficiency filter EU5
- » Discharge plenum
- » Intake plenums for upflow units
- » Sound attenuators
- » Double skin panels and doors
- » Condensate pump



### Humidifier options

- » Electrode Boiler Humidifier
- » Control of remote STULZ BNB humidifier



### Cooling options

- » Capacity control with electronic suction valve
- » Microprocessor controlled 2 or 3-way valve head pressure control



### Control options

- » Fire detector
- » Smoke detector
- » Emergency fire shut-down
- » Water detector
- » Manual override
- » Automatic control of Dampers
- » Phase monitoring
- » Remote on/off control
- » Special voltages



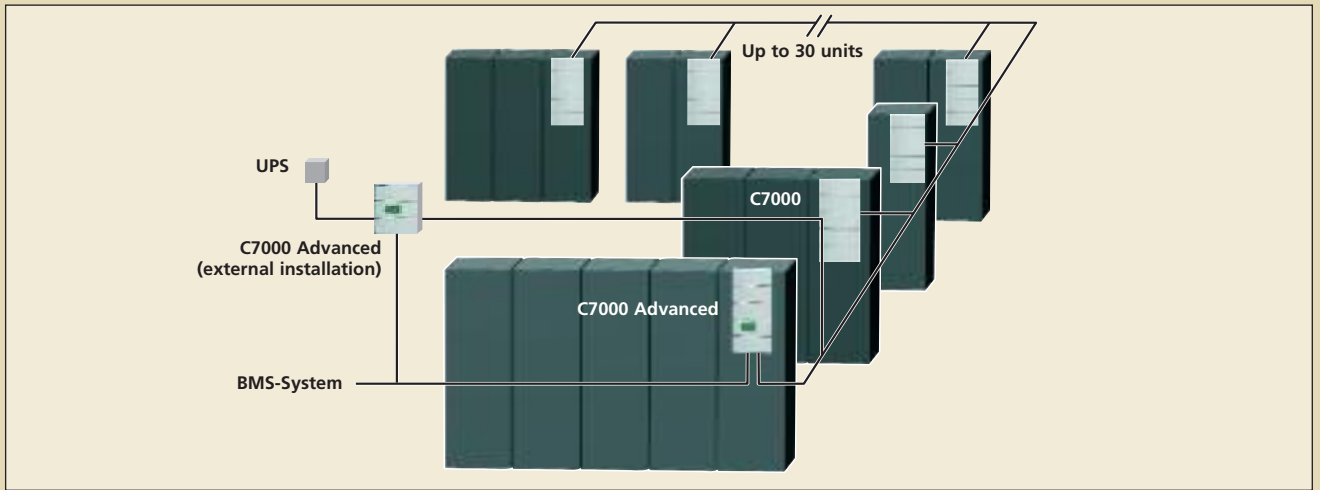
### Heating options

- » Electric heating, 1 to 3 stages or proportional
- » Hot gas reheat
- » Hot water reheat



### Options for condensators (air cooled)

- » Variable fan speed control
- » Winter operation down to minus 45 °C
- » Coil corrosion protection



## Convenient Handling thanks to Intelligent Control Technology

Irrespective of how many computer rooms you operate, whether you want to control and monitor the air conditioning directly at the unit or centrally, with the control systems from STULZ you are equipped for any eventuality. Interfaces for all known BMS systems mean that every unit can be connected to the central building management.

### » C7000

Has all the control and monitoring functions but has no visual display and is tamperproof. All control and service parameters can be read and adjusted from a separate display or laptop.

### » C7000 Plus

As C7000 but with 4-line LCD operating panel for data entry and output. The C7000 Plus allows for up to 31 units to be configured and have their actual parameters displayed.

### » C7000 Advanced

Convenient and comprehensive communication for up to 31 units. Operational control, management and monitoring via large LCD graphical display. Connection to all BMS systems possible. Modbus and other selected data protocols have already been implemented.

### STULZ interfaces to BMS and the Internet

BMS supplier	Data protocol	Gateways for STULZ controllers		
		C7000 Advanced	C7000 + C7000Plus each with E-Bus	further STULZ controllers <sup>1)</sup>
STULZ, TeleCompTrol	SDC	OnBoard <sup>3)</sup>	MIB7000	
Other suppliers	Modbus		MIB7000 <sup>3)</sup>	MIB7000
Kieback & Peter	P90		MIB7000 <sup>3)</sup>	
Satchwell	SNP		MIB7000 <sup>3)</sup>	
TREND MICRO	Network-Bus	MIB7000 <sup>3)</sup>		
Saia	S-Bus	MIB7000 <sup>3)</sup>		
Other suppliers	BACnet	MIB7000 <sup>3)</sup>		
LANDIS & STAЕFA	Ni-Bus	MIB7000 <sup>3)</sup>		C4000 NiStulz
LonWorks®	LonTalk®	LIB7000 <sup>3)</sup>	LIB7000 + MIB7000 <sup>3)</sup>	LIB7000 + MIB7000
Other suppliers	SNMP	WIB7000		
Other suppliers	HTTP	WIB7000		
JOHNSON CONTROLS	N2-Bus	METASYS <sup>2)3)</sup>		METASYS <sup>2)</sup>
LANDIS & GYR	Unigy-Bus	CFE <sup>2)3)</sup>		CFE <sup>2)</sup>
SIEMENS	Sinec L2-Bus	CP524 <sup>2)3)</sup>		CP524 <sup>2)</sup>

<sup>1)</sup> further controllers: C1002, C1010, C4000, C5000, C6000

<sup>2)</sup> Gateway from BMS supplier

<sup>3)</sup> Available on request

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## STULZ the natural choice

### Close to you worldwide.

... with expert contacts in our STULZ subsidiaries, and our exclusive global network of sales and service partners. Our five production plants are in Europe, North America and Asia.