

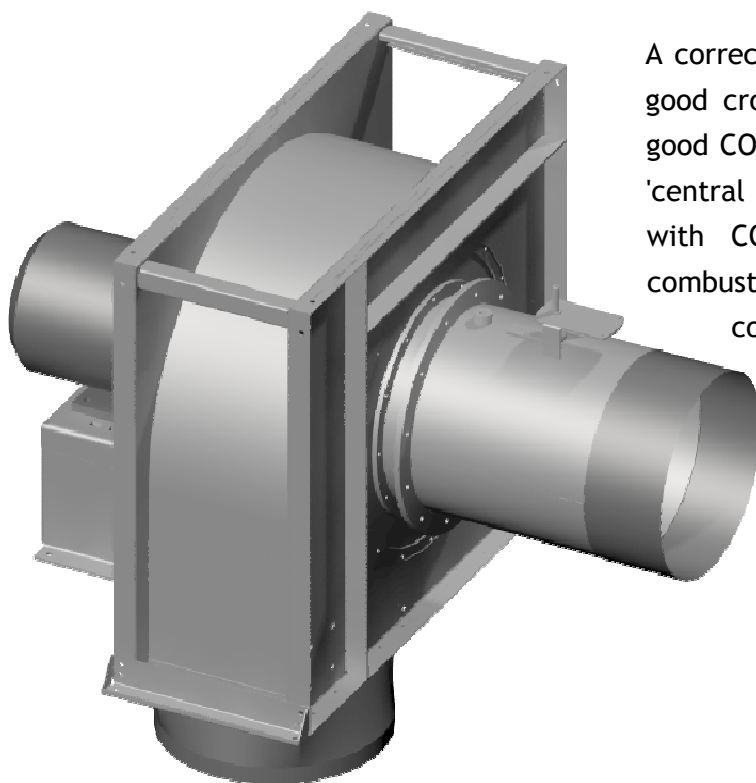
CO₂ dosing system

For optimum CO₂ dosing



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Thermeta Service BV has delivered an optimum and safe CO₂ dosing system for many years. CO₂ absorption of a plant results in an increased production at a higher light intensity. An excess of CO₂ will damage the crop, but with the correct temperature you will safely profit from all advantages without any risk. Therefore the CO₂ systems have become indispensable in present horticulture.



A correct CO₂ dosing is conditional for a good crop quality. A cost-effective and good CO₂ dosing is obtained by so-called 'central CO₂ dosing'. Here flue gases rich with CO₂ that are released at the combustion are, after cooling by the condenser, distributed evenly across the production surface via the tubes with the CO₂ stainless steel fan through the transport and distribution pipe.

Thermeta has many years of experience in giving advice with respect to and the calculation and design of complete CO₂ distribution systems. A properly operating CO₂ distribution system is very important with central CO₂ dosing. Thermeta can accurately calculate the different parts of the CO₂ distribution system for a correct CO₂ dosing. The Thermeta CO₂ dosing system can be delivered in all required capacities and has been provided with a stainless steel fan. The CO₂ dosing system is pickled or pacificated and so maintains its original stainless steel look.

The CO₂ dosing system of Thermeta Service BV is delivered including thermostat, pressure switch and CO₂ valve (default 2-way valve, optional 3-way valve).

Technical specifications



Type A

	Power	Capacity	Pressure	Power consumption	Weight	Suction	Outlet	A	B	C	D
	kW	m ³ /h	Pa.	Data at 15 °C kW	kg	mm	mm	mm	mm	mm	mm
CO2-T250-2.2	2.2	870 - 2175	2830 - 2280	1.1 - 1.8	86	250	250	760	1130	680	875
CO2-R250-3.0	3.0	1740 - 3263	2930 - 2060	1.8 - 2.5	105	250	250	760	1130	680	875
CO2-S280-4.0	4.0	2610 - 4350	3370 - 2500	3.1 - 3.9	117	315	315	760	1195	680	875
CO2-R280-5.5	5.5	3480 - 5438	3310 - 2170	4.0 - 4.8	145	315	315	850	1250	735	1025
CO2-S315-7.5	7.5	4350 - 6525	4200 - 3150	6.3 - 7.5	150	400	400	850	1355	755	1025
CO2-S400-11.0	11.0	5220 - 8700	4240 - 3480	8.0 - 10.6	210	400	400	850	1505	905	1025
CO2-V450-15.0	15.0	6960 - 10875	4800 - 3600	11.7 - 13.0	280	400	400	1120	1590	990	1240
CO2-T450-18.5	18.5	8700 - 13050	5000 - 3830	15.0 - 17.1	316	500	500	1120	1730	1030	1240
CO2-S450-22	22.0	10440 - 17400	4850 - 3050	17.4 - 20.3	380	500	500	1120	1780	1080	1240
CO2-T500-30	30.0	13920 - 21750	6200 - 4150	29.2 - 31.4	445	500	500	1120	1840	1140	1240



Type B

	Power	Capacity	Pressure	Power consumption	Weight	Suction	Outlet	A	B	C	D
	kW	m ³ /h	Pa.	Data at 15 °C kW	kg	mm	mm	mm	mm	mm	mm
CO2-360-1.1	1.1	435 - 1090	2610 - 1970	0.7 - 1.1	34	250	250	585	785	355	635
CO2-380-1.5	1.5	870 - 1630	2780 - 2100	1.2 - 1.6	45	250	250	585	785	355	635
CO2-410-2.2	2.2	1305 - 2175	3020 - 2320	1.3 - 2.1	53	250	250	760	1130	680	875
CO2-440-3.0	3.0	1740 - 2719	3540 - 2720	2.6 - 3.1	70	250	250	760	1130	680	875
CO2-470-4.0	4.0	2175 - 3263	3960 - 3280	3.1 - 4.1	90	315	315	760	1195	680	875
CO2-500-5.5	5.5	3045 - 4350	4490 - 3700	4.2 - 5.6	120	315	315	850	1250	735	1025

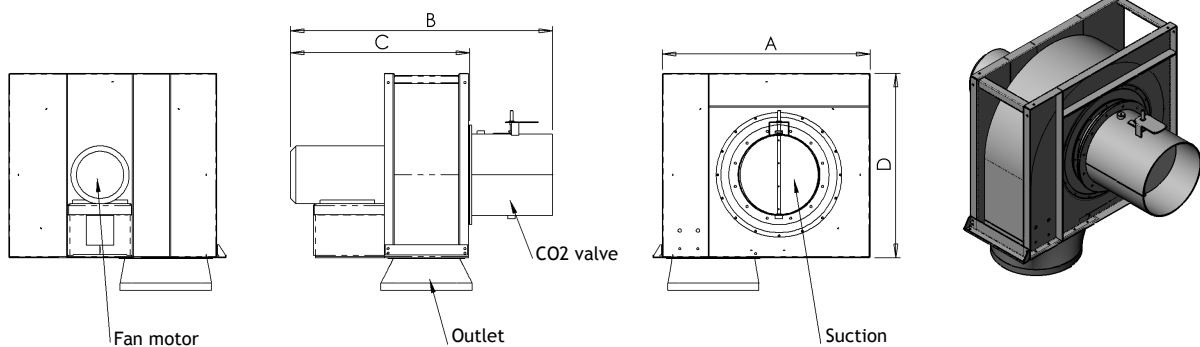


Figure 1 Various views CO₂ set (type A)

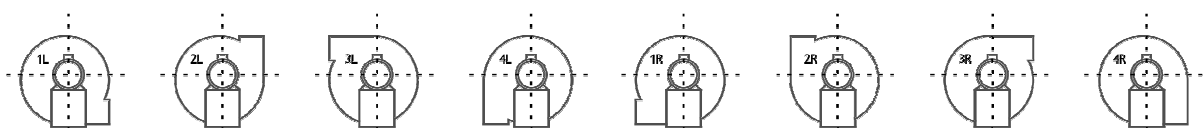


Figure 2 Outlet side

