

Ventilating system COLT/VENTO for protective suits

The ventilating system COLT / VENTO is used for the ventilation of protective suits. It is worn inside the suit and protected against contamination. As the device is separated from the suit and fully re-usable, only the empty suit film has to be disposed.

The highly reliable, maintenance-free and always ready-to-use ventilating system consists of the two components COLT and VENTO:

COLT:

The belt system is used for strain relief and connection of the breathing air supply hose.

- Variant PUR: Breathing air supply
 Variant VARIO: with air volume flow control
 Variant COOL: with continuous cooling of breathing air
 Variant KLIMA: with stepless cooling / heating of breathing air
 Variant REFI: with air volume flow control and filter

- sound-damped and diffused exhaust air
- antistatic air supply hose according to EN 139, with ID 12mm
- with connection coupling for VENTO
- with textile straps and pouch, washable at 40°C
- individual test with test report
- permissible operating pressure: max. 10 bar

VENTO:

Lightweight and comfortable vest made of breathable fabric, adjustable with Velcro straps, ideal for personal delivery to operators.

- with efficient and quiet air distribution system for head, arms and legs
- with acoustic signal as a warning when the minimum air volume flow is not reached
- one-size-fits-all sports vest in one size
- vest with name tag (Velcro)
- washable at 40° C



Available versions:

COLT:	
112479	COLT-PUR
112482	COLT-PUR with Pedi Safety coupling M
112947	COLT-VARIO
112948	COLT-VARIO with Pedi Safety coupling M
112478	COLT-COOL
112481	COLT-COOL with Pedi Safety coupling M
112477	COLT-KLIMA
112480	COLT-KLIMA with Pedi Safety coupling M
116905	COLT-REFI with Stäubli coupling and HEPA H14 filter
VENTO:	
112476	VENTO (Vest with air distribution system)
116413	Vest only
Auxiliaries:	
113194	Test device for air flow rate
112530	Test coupling for air pressure
115912	Bag for VENTO jacket with COLT system

The **COLT belt system** acts as a strain discharge and is worn inside and separated from the suit. Thus, the operator is not limited concerning his movements and the device is protected against any contamination.

The COLT versions differ in the following details:

COLT-PUR

- Hip belt adjustable in length, made of polypropylene with quick release buckle made of PP
- Mounting plate made of aluminum, anodized blue
- Distributor block made of aluminum, blue anodized
 - Inlet: Breathing air supply hose according to EN 14594, optionally with or without Pedi safety coupling
 - Output: Serto coupling for connecting the VENTO distributor jacket
- packed in textile case made of PP, 40°C washable



- 112479 COLT-PUR without Pedi safety coupling
- 112482 COLT-PUR with Pedi safety coupling
- 113129 COLT-PUR with Pedi safety coupling and communication

COLT-PUR				
	Over-pressure	Volume flow effective	Temperature-difference	Sound level in the head area
	[bar]	[l/min]	[° C]	[dB _A]
minimum ventilation	0.9	250	-	67
maximum ventilation	1.4	350	-	71

COLT-VARIO

- Hip belt adjustable in length, made of polypropylene (PP), with quick release buckle made of PP
- Mounting plate made of aluminum, anodized blue
- Air flow regulator with adjustment knob for regulating the supplied breathing air
 - Inlet: Breathing air supply hose according to EN 14594, optionally with or without Pedi safety coupling
 - Outputs: Serto coupling for connecting the VENTO distributor jacket



- 112947 COLT-VARIO without Pedi safety coupling
- 112948 COLT-VARIO with Pedi safety coupling

COLT-VARIO	Regulator closed				Regulator open		
	Over-pressure	Volume flow effective	Temperature-difference	Sound level in the head area	Volume flow effective	Temperature-difference	Sound level in the head area
	[bar]	[l/min]	[° C]	[dB _A]	[l/min]	[° C]	[dB _A]
min. / max. ventilation	3.0	250	-	67	350	-	67

COLT-COOL

- Hip belt adjustable in length, made of polypropylene (PP), with quick release buckle made of PP
- Mounting plate made of aluminum, anodized blue
- Cooling tube with adjustment knob for cooling the supplied breathing air
 - Inlet: Breathing air supply hose according to EN 14594, optionally with or without Pedi safety coupling
 - Outputs: Serto coupling for connecting the VENTO distributor jacket and silicone hose with silencer for the process exhaust air
- packed in textile case made of PP, 40°C washable



112478 COLT-COOL without Pedi safety coupling
112481 COLT-COOL with Pedi safety coupling

COLT-COOL	Position: OPEN (Cooling activ)				Position: CLOSED (Cooling inactiv)		
	Over-pressure [bar]	Volume flow effective [l/min]	Temperature-difference [° C]	Sound level in the head area [dB _A]	Volume flow effective [l/min]	Temperature-difference [° C]	Sound level in the head area [dB _A]
minimum ventilation	3.5	250	-12	68	290	0	68
maximum ventilation	4.0	300	-12	68	350	0	68

COLT-KLIMA

- Hip belt adjustable in length, made of polypropylene (PP), with quick release buckle made of PP
- Mounting plate made of aluminum, anodized blue
- Cooling tube with mixing head for cooling or Heating of the supplied breathing air
 - Inlet: Breathing air supply hose according to EN 14594, optionally with or without Pedi safety coupling
 - Outputs: Serto coupling for connecting the VENTO distributor jacket and silicone hose with silencer for the process exhaust air
- packed in textile case made of PP, 40°C washable



112477 COLT-KLIMA without Pedi safety coupling
112480 COLT-KLIMA with Pedi safety coupling
112540 COLT-KLIMA with Dräger/CEJN safety coupling

COLT-KLIMA	Position: COLD (cooling)				Position: WARM (warming up)		
	Over-pressure [bar]	Volume flow effective [l/min]	Temperature-difference [° C]	Sound level in the head area [dB _A]	Volume flow effective [l/min]	Temperature-difference [° C]	Sound level in the head area [dB _A]
minimum ventilation	4.3	250	-15	72	250	+15	73
maximum ventilation	6.5	350	-15	72	350	+15	73

COLT-REFI

- Hip belt adjustable in length, made of polypropylene (PP), with quick release buckle made of PP
- Mounting plate made of aluminum, anodized blue
- Air flow regulator with adjustment knob for regulating the supplied breathing air
 - Inlet: HEPA H14 filter with Stäubli coupling
 - Outputs: Serto coupling for connecting the VENTO distributor jacket



116905 COLT-REFI with Stäubli coupling and HEPA H14 filter

COLT-REFI	Regulator closed				Regulator open		
	Over-pressure [bar]	Volume flow effective [l/min]	Temperature-difference [° C]	Sound level in the head area [dBA]	Volume flow effective [l/min]	Temperature-difference [° C]	Sound level in the head area [dBA]
min. / max. ventilation	4.1	107	-	-	350	-	-

The lightweight **VENTO** air distribution vest is also worn inside and separated from the suit. It can be washed and reused.



By means of Velcro on the front the vest can be adjusted to any size.
Weight: 1510 g

The efficient and quiet air distribution system is equipped with a noise reducer and offers the following ventilation lines:

- 2 ball hoses for the hood area, individually adjustable, no direct streaming of the eyes, no fogging of the disc,
- 2 tubes each for the hands and feet, fixation by means of elastic stripes,
- Acoustic warning signal when the flow rate falls below the minimum air volume flow,
- the whole unit is easily to remove and reassemble in case of washing.



A complete set of COLT/VENTO ventilating system can be stored in the bag.