

## **AIR HANDLING UNITS**

### **CTHb & CTH Ranges**

Air flows 10 to 36 m<sup>3</sup>/s

Casing design to 'EN 1886' standards

Class: B - 1 - T3 - TB2 - F9



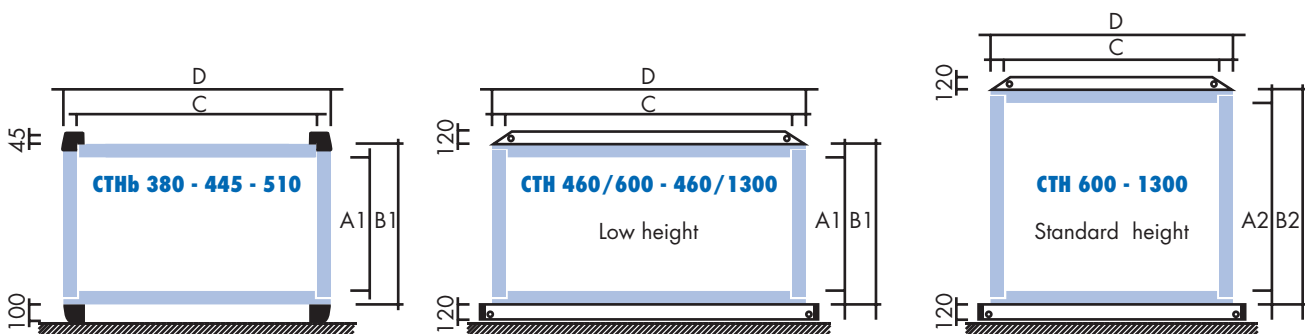
**Application**

- This range of very strong units is especially suitable for specific industrial applications and for particular comfort air conditioning systems
- Self supporting construction. Double skin panels 50 mm mineral wool insulation.
- External finish : Green RAL 5018 and Grey RAL 7024 for CTH 460/600 to 1300 : Green RAL 5018 for CTH 380 to 510
- Casing designed to resist to high mechanical loads and to comply with Class B leakage rate in accordance with Eurovent 2/2 and EN 1886
  - Fan pressure : 2600 Pa maxi for standard construction
  - Fan pressure : 3600 Pa maxi for strengthened construction
- Casing assembly ensures smooth internal and external surfaces
- Various options available such as : air washers, wet deck humidifiers, direct gas burner with gas piping, control panels, access corridor and all type of filters ( heavy filter frame, travel spray ... ) G4 to H12 efficiency.

CTHb & CTH		Air flow m³/s	Coil dimensions	Filter* cells	A1	B1	A2	B2	C	D	Overall height	Transport
<b>CTHb 380</b>		10.5	1920 x 1830	3 x 3	2074	2180			2150	2263	2325	Transportable by container for sections up to 2350 mm in length
<b>CTHb 445</b>		12.3	1920 x 2135	3 x 3.5	2074	2180			2455	2568	2325	
<b>CTHb 510</b>		14	1920 x 2440	3 x 4	2074	2180			2760	2873	2325	
Low height	<b>CTH 460/600</b>	12.7	1920 x 2200	3 x 4	2074	2180			2520	2633	2420	
	<b>CTH 460/770</b>	16.1	1920 x 2800	3 x 5	2074	2180			3120	3233	2420	
	<b>CTH 460/940</b>	19.6	1920 x 3400	3 x 6	2074	2180			3840	3953	2420	
	<b>CTH 460/1100</b>	23	1920 x 4000	3 x 7	2074	2180			4440	4553	2420	
	<b>CTH 460/1300</b>	27.6	1920 x 4800	3 x 8	2074	2180			5220	5333	2420	
Standard height	<b>CTH 600</b>	16.9	2560 x 2200	4 x 4			2790	2896	2520	2633	3136	Transportable on truck for sections up to 2500 mm in length
	<b>CTH 770</b>	21.5	2560 x 2800	4 x 5			2790	2896	3120	3233	3136	
	<b>CTH 940</b>	26.1	2560 x 3400	4 x 6			2790	2896	3840	3953	3136	
	<b>CTH 1100</b>	30.7	2560 x 4000	4 x 7			2790	2896	4440	4553	3136	
	<b>CTH 1300</b>	36.8	2560 x 4800	4 x 8			2790	2896	5220	5333	3136	

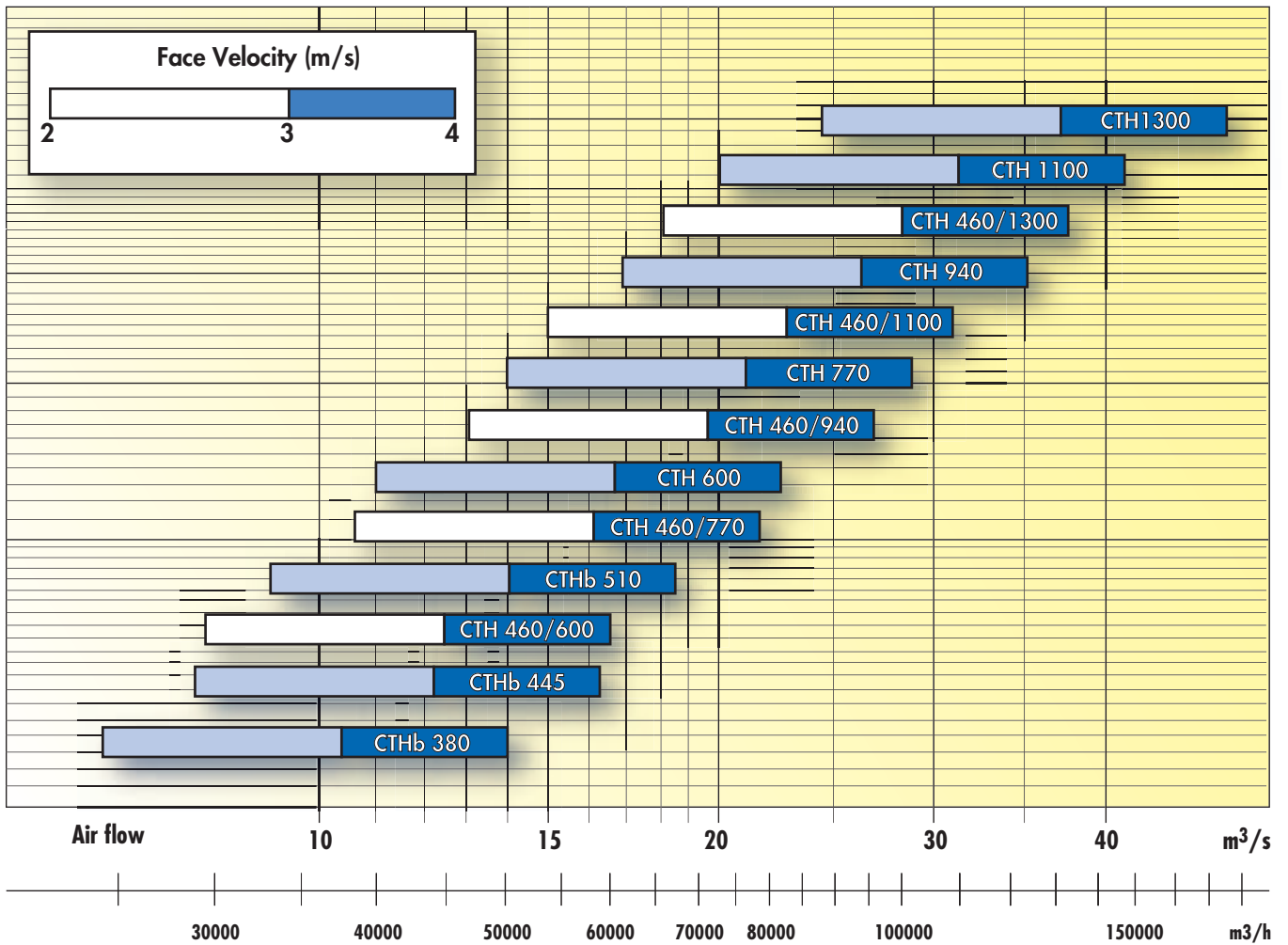
\* Filter dimensions: 595 x 595 for frames 610 x 610

• Air flows given at 3 m/s across cooling coil



# CTHb & CTH ranges

## General features



CTHb 380 to 510



CTH 460/600 to 460/1300  
Low height

CTH 600 to  
CTH 1300  
Standard height

In accordance with 'EN 1886'		CTHb 380 to 510	CTH 460/600 to 1300 Option	
Casing airtightness	Class	B	B	
Thermal bridges	Class	TB2	TB2	
Casing thermal insulation	Class	T3	T3	
Filter by-Pass	Class	F9	F9	
Max. positive pressure	Pa	+ 1600	+1400	(+2400)
Max. negative pressure	Pa	- 1400	-1200	(-1600)
Casing mechanical strength	Class	1	1	

### EN 1886 Standard

To conform with the EN 1886 specifications, the CTH range meets the following requirements:

- **Casing leakage rate**  
Class B as standard (EN 1886)  
Class C as an option (EUROVENT 2/2)
- **Casing mechanical strength**  
Class 1 as standard  
Maximal total pressure :  
3000 Pa CTHb 380 to 510  
2600 Pa CTH 460/600 to 1300  
(in option up to 4000 Pa)
- **Casing thermal insulation**  
Class T3 as standard
- **Noise insulation**  
Sound spectrum are available and conform with the measurement method of EN 1886
- **Other criteria**  
Dependant on unit's components and arrangement. Please contact our sales office for further information.



Filter section with:

- Magnahelic manometer
- Hinged door
- Manual dampers

### Typical arrangements

- **Horizontal arrangement** (Vertical arrangement not available)
- **Internal or external units**  
External units with bitumen felt roof (CTH 460/600 to 1300) or metallic (CTHb 380 to 510)
- **Air intake sections**  
(Damper / Single air intake or Mixing box section) provided with Hydronic modulating or airtight dampers.  
Number of actuators depends on the air intake damper area.
- **Filter sections** (G4 to H12 efficiency)  
All filters are of universal sizes, frame mounted with front withdrawal through access section (CTH 460/600 to 1300) or in rails with front damping device for side withdrawal (CTHb 380 to 510). Only prefilters (G4) can be side withdrawn when access is not possible.
- **Coil sections**  
All heater batteries and cooling coils are manufactured by Hydronic. 4 different geometrical type of fins - Fins in aluminium, polyurethane pre-painted aluminium or copper. 2 different tube diameters in copper, steel or stainless steel.

Coils can be in one piece (equal to the width of the unit) or split vertically and staggered in the direction of air flow. In the latter case, only half of the unit's width is needed to withdraw the coil.

2 types of droplet eliminator

- galvanised steel wire mesh for coil face velocity up to 3.25 m/s
- PPHD blades for coil face velocity up to 4m/s (M1 fire classed).

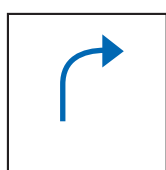
A drawer for a control sensor can be factory mounted in the unit.

# CTHb & CTH ranges

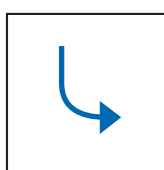
## Casing specifications / Typical arrangements

### Typical arrangements

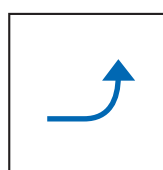
- **Electric heaters**
- **Humidifier sections**
  - Wet deck humidifier
  - Steam humidifier
  - Air washer 90% efficiency
- **Direct gas burner including :**  
diaphragm valve, burner, radiation screen, burner support plate, gas pipe and control panel.
- **Fan section :** Centrifugal double inlet  
2 or 3 possibilities to optimise the fan selection by using 1 or 2 fans, 2 or 3 impeller diameters, fans from 3 different manufacturers.  
4 different fan discharges



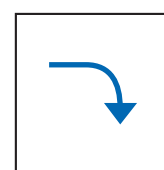
H60



H62



H61

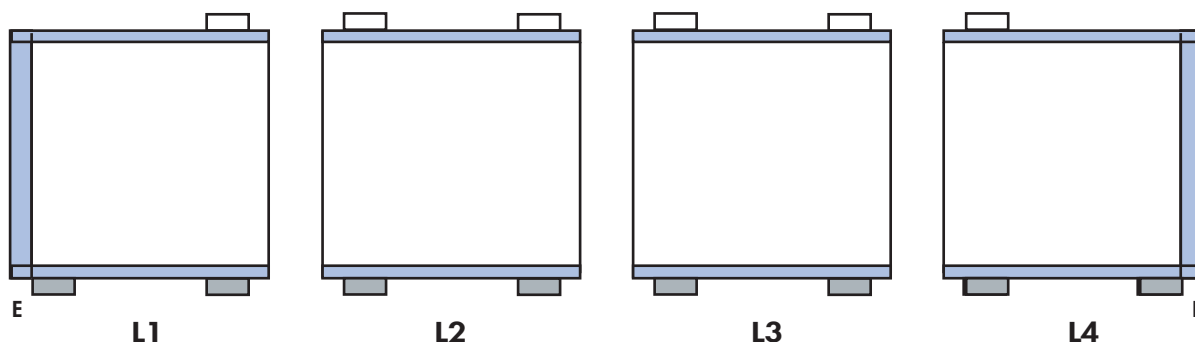


H63

Fan section includes fan and motor chassis, anti-vibration mountings, adjustable belt tension device, internal flexible sleeve and belt guard.

Also available factory mounted door switch, motor isolator, lockable door handle, etc... Optional: axial fans or plug fans.

- **Sound attenuators**  
splitters of 4 different lengths. Sound attenuator sections can be either upstream or downstream of the fan section.
- **Access corridor**  
particularly suitable for external units, it allows the fitting and protection of components such as actuators, manometers, differential pressure sensors, coil pipes and valves, control panel.
- **Flat-pack delivery**  
generally units are delivered in factory assembled sections. In case of limited site access, sections can be delivered flat-pack for site assembly by our Service Team, to guarantee casing air tightness class.



The unit's overall length is the sum of each component's functional length mentioned in the following pages: + (2 x E) mm

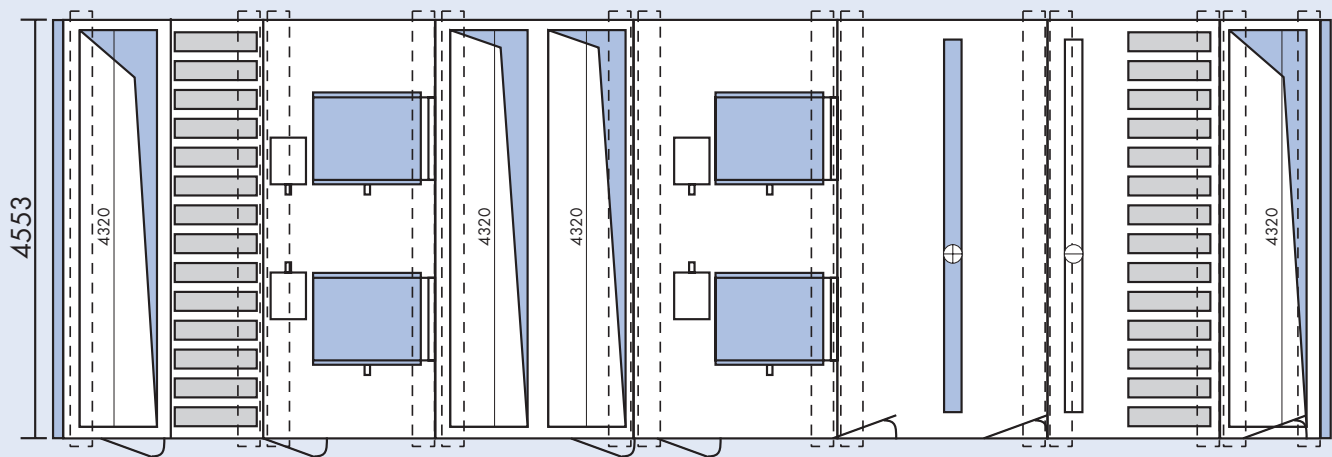
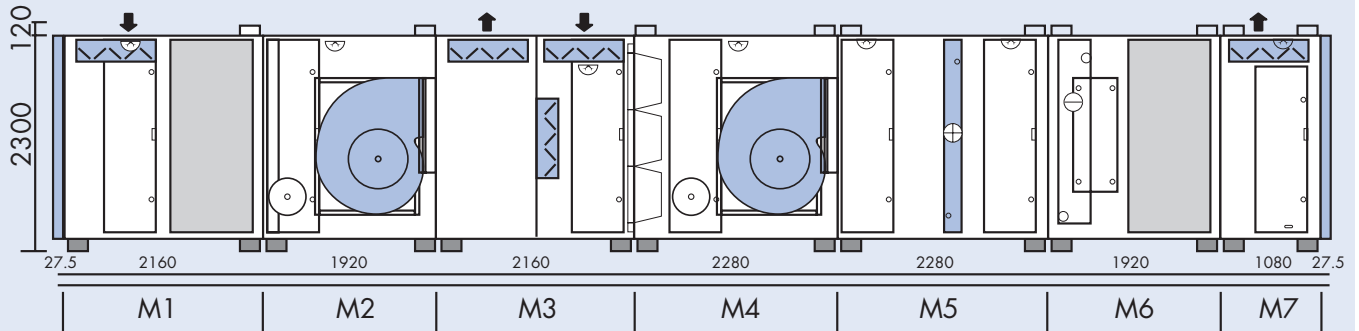
CTH overall length = L1+L2+L3+L4 + (2 x E) mm

E = 55 mm for CTHb 380 to 510

E = 27.5 mm for CTH 460/600 to 1300.

**CTH example**

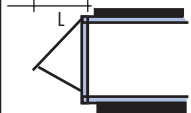
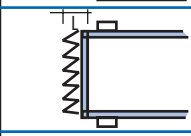
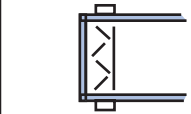
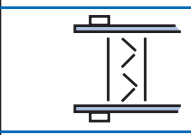
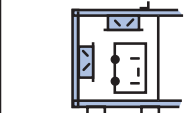
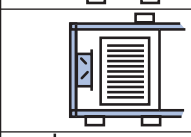
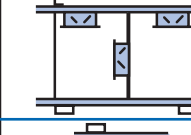

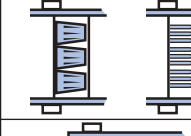

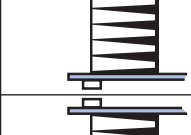
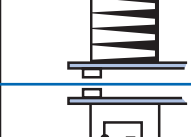


CTH 460/1100 handling 22.22 m<sup>3</sup>/s @ 2000 Pa

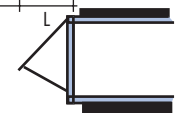
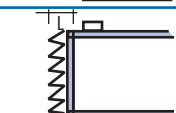
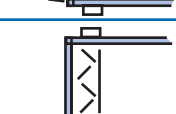
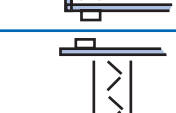
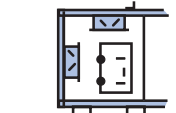

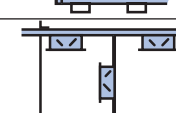
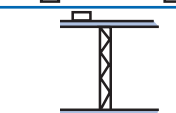








# CTHb & CTH ranges

## Functional lengths

• Actual lengths of functional components

Section Type	Symbol	Description	CTHb			CTH (Low height - mm)				
			380	445	510	460 /600	460 /770	460 /940	460 /1100	460 /1300
Intake hood		Air intake hood L = mm	1050	1050	1050					
Intake louvre		Air intake louvre L = mm				200	200	200	200	200
Air intake		Air intake damper	240	240	240	240	240	240	240	240
Damper		Volume control damper	240	240	240	360	360	360	360	360
Mixing box (Internal version)		Single air intake or 2 way mixing box	960	960	960	1080	1080	1080	1080	1080
		2 way mixing box with one side damper	1320	1440	1560	1440	1680	1920	2160	2520
		3 way mixing box	1920	1920	1920	2160	2160	2160	2160	2160
Air filters (Universal sizes)		Pre-filter - Front or side withdrawal	240	240	240	240	240	240	240	240
		Front withdrawal short bag filters or side withdrawal for CTHb 380 to 510	480	480	480	480	480	480	480	480
		Front withdrawal long bag filters or side withdrawal for CTHb 380 to 510	720	720	720	840	840	840	840	840
		Front withdrawal absolute filters	360	360	360	480	480	480	480	480
		Activated carbon filters - front withdrawal	600	600	600	600	600	600	600	600
Access		Access section with hinged door	600	600	600	720	720	720	720	720
Air filters		Pre-filter + short bag side withdrawal	600	600	600					

Section Type	Symbol	Description	CTH (Standard height - mm)				
			600	770	940	1100	1300
Intake hood		Air intake hood L = mm					
Intake louvre		Air intake louvre L = mm	200	200	200	200	200
Air intake		Air intake damper	240	240	240	240	240
Damper		Volume control damper	360	360	360	360	360
Mixing box (Internal version)		Single air intake or 2 way mixing box	1080	1080	1080	1080	1080
		2 way mixing box with one side damper	1440	1680	1920	2160	2520
		3 way mixing box	2160	2160	2160	2160	2160
Air filters (Universal sizes)		Pre-filter - Front or side withdrawal	240	240	240	240	240
		Front withdrawal short bag filters or side withdrawal for CTHb 380 to 510	480	480	480	480	480
		Front withdrawal long bag filters or side withdrawal for CTHb 380 to 510	840	840	840	840	840
		Front withdrawal absolute filters	480	480	480	480	480
		Activated carbon filters - front withdrawal	600	600	600	600	600
Access		Access section with hinged door	720	720	720	720	720
Air filters		Pre-filter + short bag side withdrawal					



### External CTH 770

- Air intake louvre
- Access section
- Direct gas burner section (with burner support plate)



### External CTH 940

- Fresh air intake louvre on 2 way mixing box
- 2 way mixing box with side return air inlet



### Filter bank frame

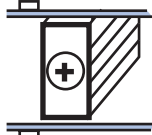
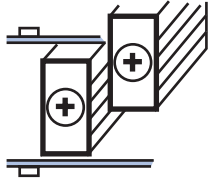
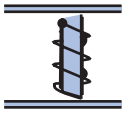

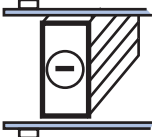
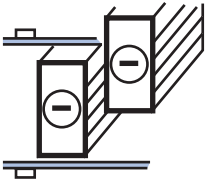
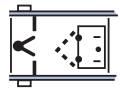
- Airtight filter bank frame for all type of filters with universal dimensions
- Front withdrawal

# CTHb & CTH ranges

## Functional lengths

\* Lengths are for tube arrangements 28 x 32 and 40 x 40, for others contact Sales Office.

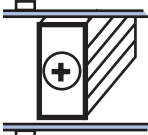
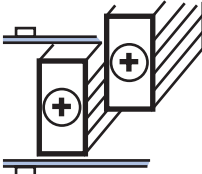
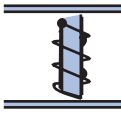
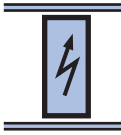
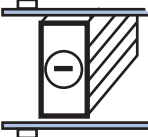
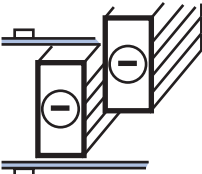
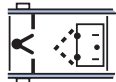
• Actual lengths of functional components

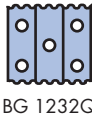
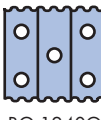
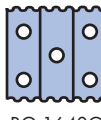
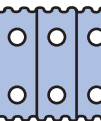
Section Type	Symbol	Description		CTHb			CTH (Low height - mm)				
				380	445	510	460 /600	460 /770	460 /940	460 /1100	460 /1300
Heater batteries	 Single battery	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows	360 Of	360 1 to 8	360 Rows	360	360	360	360	360
			7 to 12 rows	480 Of	480 10 to 12	480 Rows	480	480	480	480	480
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows	360 Of	360 1 to 5	360 Rows	360	360	360	360	360
			5 to 8 rows	480 Of	480 6 to 8	480 Rows	480	480	480	480	480
	 2 Batteries	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows						840	840	840
			7 to 12 rows						1080	1080	1080
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows						840	840	840
			5 to 8 rows						1080	1080	1080
Frost sensor drawer		Side removal drawer		120	120	120	120	120	120	120	120
Electric heaters		Module 1 with anti radiation screen		480	480	480	360	360	360	360	360
		Module 2 with anti radiation screen		480	480	480	480	480	480	480	480
Cooling coils	 Single coil with eliminator	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows	480 Of	480 1 to 8	480 Rows	480	480	480	480	480
			7 to 12 rows	600 Of	600 10 to 12	600 Rows	600	600	600	600	600
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows	480 Of	480 1 to 5	480 Rows	480	480	480	480	480
			5 to 8 rows	600 Of	600 6 to 8	600 Rows	600	600	600	600	600
	 2 coils with eliminator	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows						960	960	960
			7 to 12 rows						1200	1200	1200
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows						960	960	960
			5 to 8 rows						1200	1200	1200
Make-up		Direct gas burner		2400	2400	2400	2400	2400	2400	2400	

\* Lengths are for tube arrangements 28 x 32 and 40 x 40, for others contact Sales Office.

### 4 types of coils

All manufactured and designed by Ozonair Hydronic: 2 different tube arrangements and 2 different fin types can be selected to optimise the ratio performance / price

Section Type	Symbol	Description	CTH (Standard height - mm)					
			600	770	940	1100	1300	
Heater batteries	 Single battery	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows	360	360	360	360	360
			7 to 12 rows	480	480	480	480	480
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows	360	360	360	360	360
			5 to 8 rows	480	480	480	480	480
	 2 Batteries	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows			840	840	840
			7 to 12 rows			1080	1080	1080
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows			840	840	840
			5 to 8 rows			1080	1080	1080
Frost sensor drawer		Side removal drawer	120	120	120	120	120	
Electric heaters		Module 1 with anti radiation screen	360	360	360	360	360	
		Module 2 with anti radiation screen	480	480	480	480	480	
Cooling coils	 Single coil with eliminator	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows	480	480	480	480	480
			7 to 12 rows	600	600	600	600	600
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows	480	480	480	480	480
			5 to 8 rows	600	600	600	600	600
	 2 coils with eliminator	Tube 1/2" Ø 28 x 32 Fins *	1 to 6 rows			960	960	960
			7 to 12 rows			1200	1200	1200
		Tube 5/8" Ø 40 x 40 Fins *	1 to 4 rows			960	960	960
			5 to 8 rows			1200	1200	1200
Make-up		Direct gas burner	2400	2400	2400	2400	2400	

Tube Details	Ø 1/2" Copper	Ø 5/8" Copper or Ø 16 mm Steel
28 x 32 Staggered tubes	 BG 1232Q	
40 x 35 Staggered tubes	 BG 1240Q	 BG 1640Q
40 x 40 Parallel tubes		 BG 1640A



### Internal CTH 1300

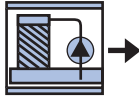
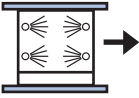
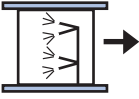
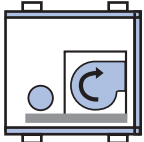
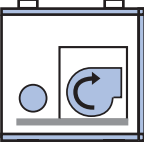
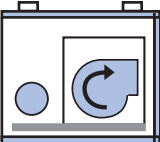

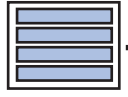
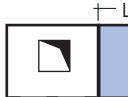
- Filter section with inclined tube manometer
- Cooling coil section with 2 coils, headers with flanged connections

# CTHb & CTH ranges

## Functional lengths

\* Lengths are for tube arrangements 28 x 32 and 40 x 40, for others contact Sales Office.

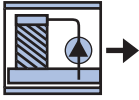
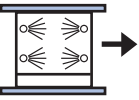
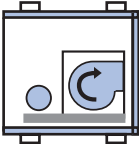
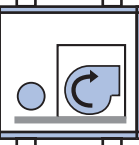
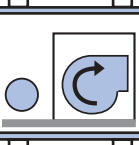
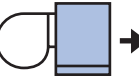
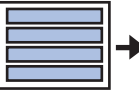
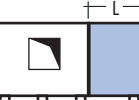
• Actual lengths of functional components

Section Type	Symbol	Description		CTHb			CTH (Low height - mm)						
				380	445	510	460 /600	460 /770	460 /940	460 /1100	460 /1300		
Heater batteries		Wet deck humidifiers		60%	600	600	600	960	960	960	960	960	
				80% - 90%	720	720	720						
		Air washer		$\eta = 90\%$	1760	1760	1760	1760	1760	1760	1760	1760	
		Empty section for steam humidifier		Without access	840	840	840	840	840	840	840		
				With access	1200	1200	1200	1200	1200	1200	1200		
Fan sections backward curved		Minimum size		Nb and fan size	630	710	800	710	800	900			
				Max motor size (kW)		45	45	55	30	45	45		
				1500 t/m									
		Max motor frame		225	250	250	200	225	225				
		Discharge direction		H60 - H62	1800	1920	2160	1920	2160	2280			
				H61 *	1920	2040	2250	2040	2280	2400			
		Nominal size		Nb and fan size	710	800	900	800	900	2x630	2x710	2x800	
				Max motor size (kW)		45	55	55	45	45	2x30	2x30	2x45
				1500 t/m									
		Max motor frame		225	250	250	225	225	200	200	225		
		Discharge direction		H60 - H62	1920	2160	2280	2160	2280	1800	1920	2160	
				H61 *	2040	2280	2400	2280	2400	1920	2040	2280	
	Maximum size		Nb and fan size	800	900		900	2x630	2x710	2x800	2x900		
			Max motor size (kW)		55	55		45	2x30	2x30	2x45	2x45	
			1500 t/m										
	Max motor frame		250	250		225	200	200	225	225			
	Discharge direction		H60 - H62	2160	2280		2280	1800	1920	2160	2280		
			H61 *	2280	2400		2400	1920	2040	2280	2400		
Expansion section		Expansion section with or without access		2 fans				720	720	960	960		
				1 fan	720	720	960	960	960				
Sound attenuators		Sound attenuators		L = 900 mm	1080	1080	1080	1080	1080	1080	1080		
				L = 1200 mm	1320	1320	1320	1320	1320	1320	1320		
				L = 1500 mm	1680	1680	1680	1680	1680	1680	1680		
Access corridor		Access corridor on access side		L = mm	960	960	960	1320	1320	1320	1320		

\* For CTHb 380 to 510, functional lengths mentioned are available for the following motor capacities:  
 • H61 arrangement: 30 kW instead of 45      • H60-H62 arrangements: 45 kW instead of 55

\* Lengths are for tube arrangements 28 x 32 and 40 x 40, for others contact Sales Office.

• Actual lengths of functional components

Section Type	Symbol	Description	CTH (Standard height - mm)						
			600	770	940	1100	1300		
Heater batteries		Wet deck humidifiers	60%	960	960	960	960	960	
			80% - 90%						
		Air washer	$\eta = 90\%$	1760	1760	1760	1760	1760	
			Empty section for steam humidifier	Without access	840	840	840	840	840
		With access		1200	1200	1200	1200	1200	
Fan sections backward curved		Minimum size	Nb and fan size	800	900	1000			
			Max motor size (kW)	45	45	55			
			1500 t/m						
		Max motor frame	225	225	250				
	Discharge direction	H60 - H62	2160	2280	2400				
		H61 *	2280	2400	2400				
	Nominal size		Nominal size	Nb and fan size	900	1000	2x710	2x800	2x900
				Max motor size (kW)	45	55	2x30	2x45	2x45
				1500 t/m					
		Max motor frame	225	250	200	225	225		
		Discharge direction	H60 - H62	2280	2400	1920	2160	2280	
			H61 *	2400	2400	2040	2280	2400	
Maximum size		Maximum size	Nb and fan size	1000		2x800	2x900	2x1000	
			Max motor size (kW)	55		2x45	2x45	2x55	
			1500 t/m						
	Max motor frame	250		225	225	250			
	Discharge direction	H60 - H62	2400		2160	2280	2400		
		H61 *	2400		2280	2400	2400		
Expansion section		Expansion section with or without access	2 fans			1080	1080	1080	
			1 fan	1080	1080	1080	1080	1080	
Sound attenuators		Sound attenuators	L = 900 mm	1080	1080	1080	1080	1080	
			L = 1200 mm	1320	1320	1320	1320	1320	
			L = 1500 mm	1680	1680	1680	1680	1680	
Access corridor		Access corridor on access side	L = mm	1320	1320	1320	1320	1320	



**External CTH 770**

- Wet deck humidifier section with recirculating pump

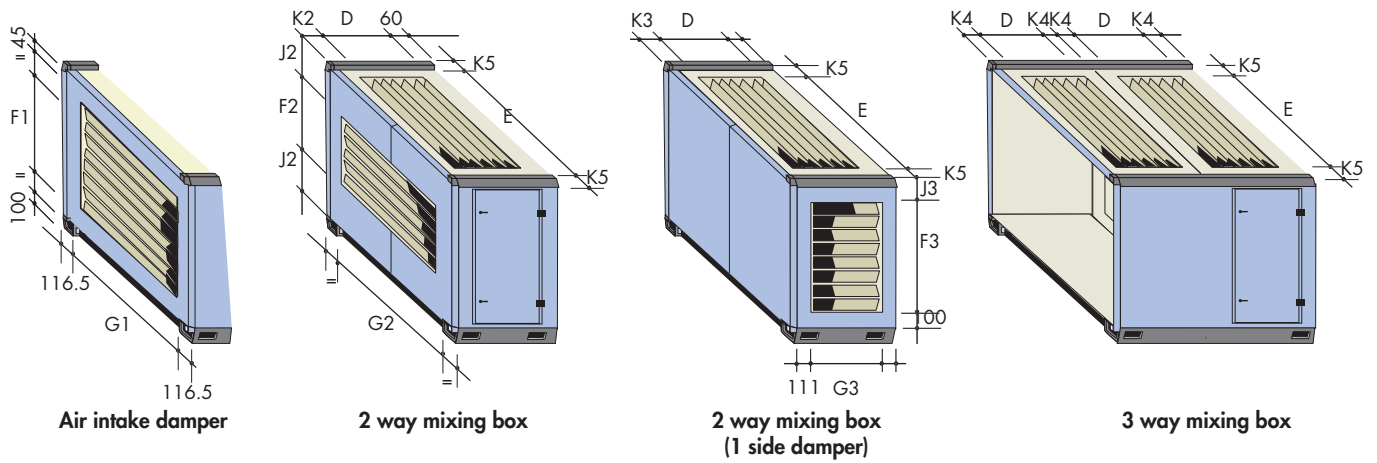


**CTH 940**

- Fan assembly mounted on anti-vibration mountings with internal flexible connection and belt guard

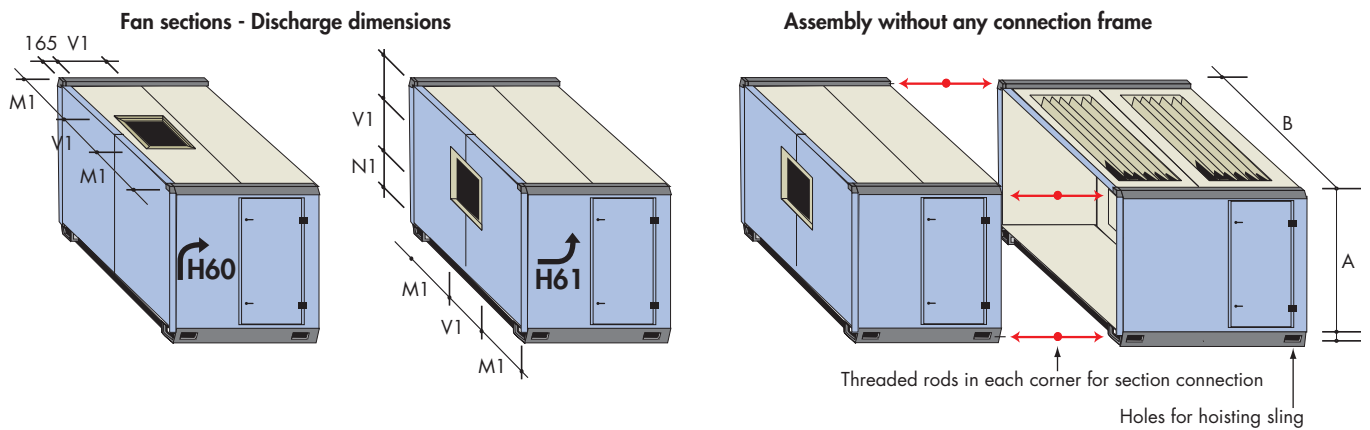
*Note: The maximum motor size (mentioned in table on page 9) can be increased in some cases and depends on the fan discharge direction. For discharge direction type H63 please contact the Sales Office.*

### Air intake sections - damper dimensions



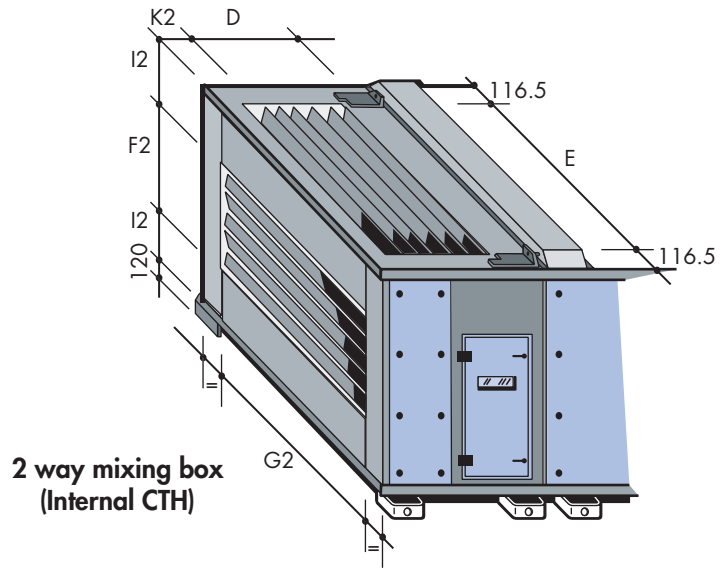
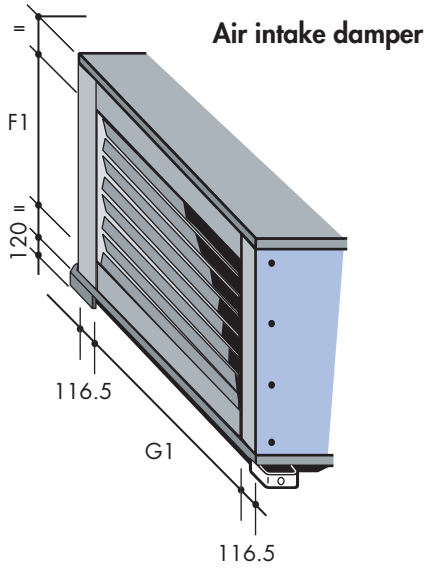
CTHb	Air Flow m <sup>3</sup> /s	F1	G1 (Damper)	F2	G2 (Damper)	F3	G3 (Damper)	D	E (Damper)	J2	K2	J3	K3	K4	K5
<b>380</b>	10.54	1995	2030 (1 x 1770)	840	1770	1665	900 (1 x 900)	840	1770 (1 x 1770)	670	115	415	115	60	246.5
<b>445</b>	12.3	1995	2335 (2 x 1090)	1005	1770	1665	1090 (1 x 1090)	840	2335 (2 x 1090)	587.5	115	415	115	60	116.5
<b>510</b>	14.05	1995	2640 (2 x 1230)	1170	1770	1665	1230 (1 x 1230)	840	2640 (2 x 1230)	505	115	415	115	60	116.5

### Fan section - discharge dimensions

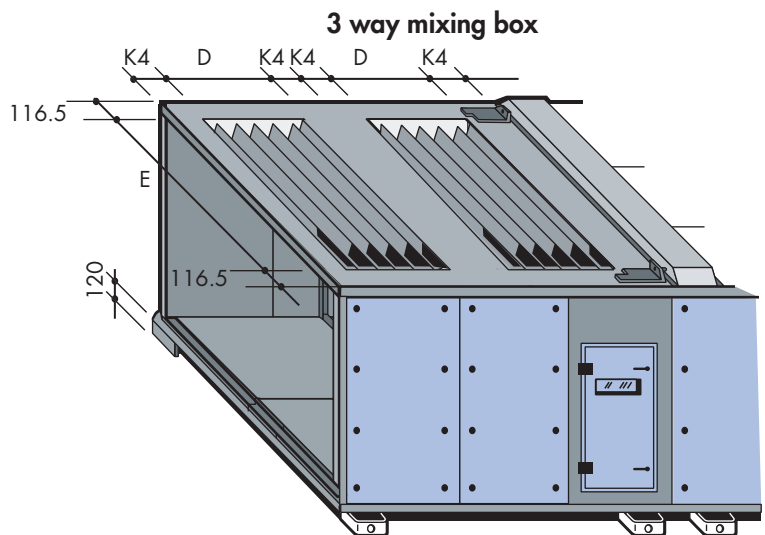
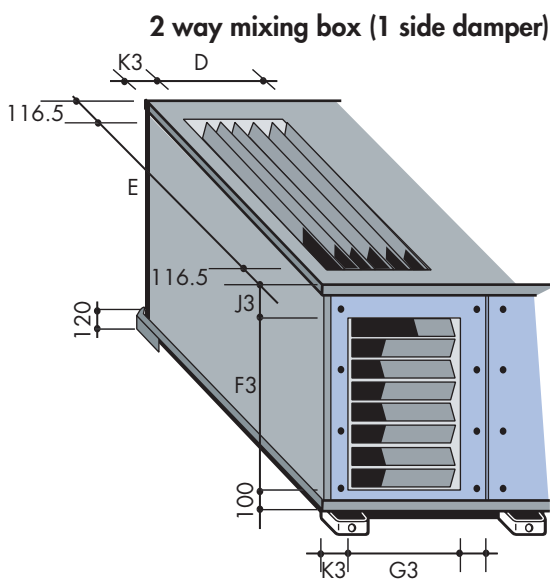


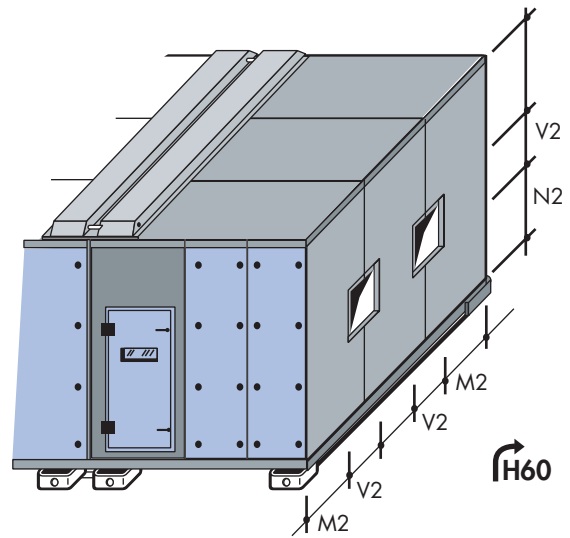
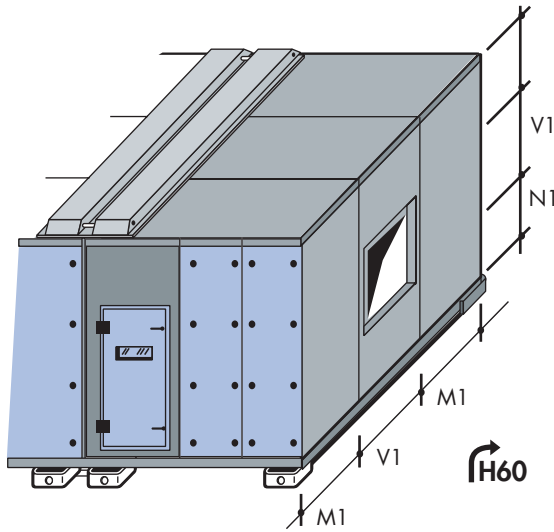
CTHb	Fan Ø	V1	M1	N1
<b>380</b>	630	830	716.5	640
	710	930	666.5	685
	800	1035	614	740
<b>445</b>	710	930	819	685
	800	1035	766.5	740
	900	1160	704	795
<b>510</b>	800	1035	919	740
	900	1160	856.5	795

**Air intake sections - damper dimensions**



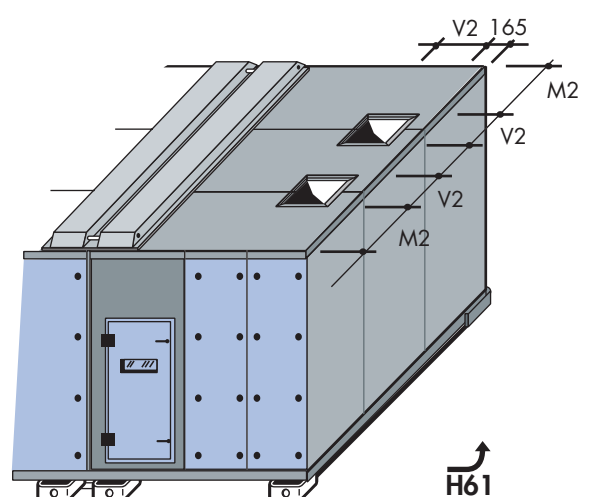
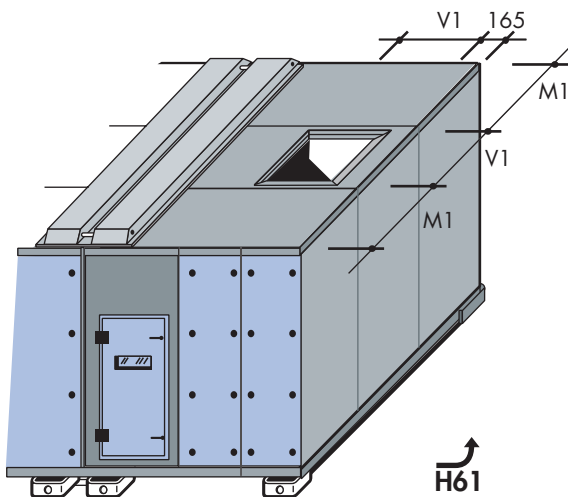
	CTH	Air Flow m <sup>3</sup> /s	F1	G1 (Damper)	F2	G2 (Damper)	F3	G3 (Damper)	D	E (Damper)	I2	K2	J3	K3	K4
Low height	<b>460/600</b>	12.67	1995	2400 (2 x 1090)	1005	1770 (1 x 1770)	1665	1090 (1 x 1090)	840	2400 (2 x 1090)	587.5	133.5	415	111	120
	<b>460/770</b>	16.13	1995	3000 (2 x 1410)	1170	1770 (1 x 1770)	1665	1320 (1 x 1320)	840	3000 (2 x 1410)	505	133.5	415	111	120
	<b>460/940</b>	19.58	1995	3720 (2 x 1770)	1500	1770 (1 x 1770)	1665	1580 (1 x 1580)	840	3720 (2 x 1770)	340	133.5	415	111	120
	<b>460/1100</b>	23.04	1995	4320 (3 x 1320)	840	3720 (2 x 1770)	1665	1770 (1 x 1770)	840	4320 (2 x 1090 + 1 x 1770)	670	133.5	415	111	120
	<b>460/1300</b>	27.65	1995	5100 (3 x 1580)	1005	3720 (2 x 1770)	1665	2360 (2 x 1090)	840	5100 (3 x 1580)	587.5	133.5	415	111	120
Standard height	<b>600</b>	16.9	2655	2400 (2 x 1090)	1335	1770 (1 x 1770)	2490	900 (1 x 900)	1005	2400 (2 x 1090)	780	111	306	111	97.5
	<b>770</b>	21.5	2655	3000 (2 x 1410)	1665	1770 (1 x 1770)	2490	1090 (1 x 1090)	1005	3000 (2 x 1410)	615	111	306	111	97.5
	<b>940</b>	26.11	2655	3720 (2 x 1770)	1995	1770 (1 x 1770)	2490	1410 (1 x 1410)	1005	3720 (2 x 1770)	450	111	306	111	97.5
	<b>1100</b>	30.72	2655	4320 (3 x 1320)	1170	3720 (2 x 1770)	2490	1580 (1 x 1580)	1005	4320 (2 x 1090 + 1 x 1770)	863	111	306	111	97.5
	<b>1300</b>	36.86	2655	5100 (3 x 1580)	1335	3720 (2 x 1770)	2490	1770 (1 x 1770)	1005	5100 (3 x 1580)	780	111	306	111	97.5





CTH	Fan Ø	Nb	V1	M1	N1	V2	M2	N2
<b>380</b> / <b>600</b>	710	1	930	851	685			
	800	1	1035	799	740			
	900	1	1160	736	795			
<b>460</b> / <b>770</b>	630	2				830	486	640
	800	1	1035	1099	740			
	900	1	1160	1036	795			
<b>460</b> / <b>940</b>	630	2				830	621	640
	710	2				930	521	685
	900	1	1160	1395	795			
<b>460</b> / <b>1100</b>	710	2				930	701	685
	800	2				1035	596	740
<b>460</b> / <b>1300</b>	800	2				1035	806	740
	900	2				1160	741	795

CTH	Fan Ø	Nb	V1	M1	N1	V2	M2	N2
<b>600</b>	800	1	1035	799	740			
	900	1	1160	736	795			
	1000	1	1294	669	823			
<b>770</b>	900	1	1160	1036	795			
	1000	1	1294	969	823			
<b>940</b>	710	2				930	521	685
	800	2				1035	476	740
	1000	1	1294	1329	823			
<b>1100</b>	800	2				1035	656	740
	900	2				1160	561	795
<b>1300</b>	900	2				1160	741	795
	1000	2				1294	697	823



## Incorporation statement

(Article 4, paragraph 2 of modified directive 89/392/CEE) (1)

Ozonair Hydronic  
71 High Street, Nailsea,  
Bristol BS48 1AW

HYDRONIC declares that the air handling units types CCM, CTB2, CTHb & CTH and ancillaries, should **not** be put into operation until the installation, in which it has been fitted, has been declared to conform to the modified (1) 'Machinery Directive' 89/392/CEE

HYDRONIC declares that the equipment is in accordance with the provisions of the directives  
'EMC' N° 89/336/CEE modified (2)  
'Low voltage' N° 73/23/CEE modified (3)

(1) 89/392/CEE modified 91/368/CEE, 93/44/CEE, 93/68/CEE, 98/37/CEE

(2) 89/336/CEE modified 92/31/CEE, 93/68/CEE, 98/13/CEE

(3) 73/23/CEE modified 93/68/CEE