TOPAZ
WATERSIDE CONTROL FAN COIL UNITS

VERTICAL AND HORIZONTAL MODELS
CHASSIS OR CASED

TECHNICAL MANUAL

TEV LTD, ARMYTAGE ROAD, BRIGHOUSE, WEST YORKSHIRE, HD6 1QF. **TEL:** + 44 (0) 1484 405630 **FAX:** +44 (0) 1484 405620
EMAIL: sales@quartz.co.uk **WEB:** www.quartz.co.uk

40908001-02

TECHNICAL DATA

FANCOIL UNIT DIMENSION

FAN COIL UNIT STANDARD ACCESSORIES

GENERAL DATA FOR 2 PIPE SYSTEM (TPZ10-60)

MODEL			TPZ10	TPZ20	TPZ30	TPZ40	TPZ50	TPZ60
	No of Fans	n°	1	1	2	2	2	2
	No of Coils	n°	1	1	1	1	1	1
Cooling Coil	No of Rows	n°	3	3	3	3	3	3
	Water content	litres	0,59	0,93	1,27	1,27	1,61	1,61
	Hydraulic connections (Ø female BSP)	Ø	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
General features	Net weight	kg	14	17	22	23	27	28

GENERAL DATA FOR 4 PIPE SYSTEM (TPZ10-60)

MODEL			TPZ10	TPZ20	TPZ30	TPZ40	TPZ50	TPZ60
	No of Fans	n°	1	1	2	2	2	2
	No of Coils	n°	2	2	2	2	2	2
Cooling coil	No of Rows	n°	3	3	3	3	3	3
	Water content	litres	0,59	0,93	1,27	1,27	1,61	1,61
	Hydraulic connections (Ø female BSP)	Ø	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Heating coil	No of Rows	n°	1	1	1	1	1	1
	Water content	litres	0,19	0,31	0,42	0,42	0,53	0,53
	Hydraulic connections (Ø female BSP)	Ø	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
General features	Net weight	kg	15	18	23	24	28	29

GENERAL DATA FOR 2 PIPE SYSTEM (TPZ 70-120)

MODEL			TPZ70	TPZ80	TPZ90	TPZ100	TPZ110	TPZ120
	No of Fans	n°	2	2	2	3	3	3
	No of Coils	n°	1	1	1	1	1	1
Cooling Coil	No of Rows	n°	3	3	3	3	3	3
	Water content	litres	2,42	2,93	2,93	3,28	4,04	4,04
	Hydraulic connections (Ø female BSP)	Ø	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
General features	Net weight	kg	30	35	36	46	55	57

GENERAL DATA FOR 4 PIPE SYSTEM (TPZ70 - 120)

MODEL			TPZ70	TPZ80	TPZ90	TPZ100	TPZ110	TPZ120
	No of Fans	n°	2	2	2	3	3	3
	No of Coils	n°	2	2	2	2	2	2
Cooling coil	No of Rows	n°	3	3	3	3	3	3
	Water content	litres	2,42	2,93	2,93	3,28	4,04	4,04
	Hydraulic connections (Ø female BSP)	Ø	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Heating coil	No of Rows	n°	1	1	1	1	1	1
	Water content	litres	0,53	1,29	1,29	1,09	1,35	1,35
	Hydraulic connections (Ø female BSP)	Ø	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
General features	Net weight	kg	32	38	39	49	58	60

TECHNICAL DATA

MODEL FACTORY DEFAULT SPEED SETTINGS				10 2° 4° 5°	20 2° 3° 4°	30 2° 3° 4°	40 2° 3° 5°	50 1° 3° 4°	60 2° 4° 5°	70 3° 4° 5°	80 1° 2° 3°	90 1° 3° 5°	100 2° 3° 5°	110 2° 3° 5°	120 2° 4° 5°
2 pipe system (3R coil)															
COOLING Inlet water temperature: 7 °C Outlet water temperature: 12°C Inlet air temperature: 27°C d.b.-19°C w.b.	**Total cooling capacity**	kW	max	0.99	1.67	2.51	3.11	3.81	4.55	4.82	6.73	8.16	9.13	12.06	12.66
		kW	med	0.90	1.47	2.16	2.32	3.42	3.99	4.23	6.04	7.10	7.94	9.19	10.92
		kW	min	0.72	1.31	1.64	1.86	2.62	3.14	3.64	5.16	5.50	7.23	6.87	7.97
	Sensible cooling capacity	kW	max	0.83	1.27	1.88	2.36	2.78	3.32	3.42	4.98	5.79	6.48	8.68	8.86
		kW	med	0.73	1.10	1.62	1.76	2.49	2.87	2.96	4.47	5.04	5.64	6.61	7.64
		kW	min	0.57	0.97	1.22	1.40	1.91	2.26	2.51	3.82	3.90	5.13	4.94	5.58
	Water flow	l/s	max	0.049	0.081	0.122	0.151	0.184	0.220	0.233	0.328	0.397	0.445	0.588	0.616
COOLING Inlet water temperature: 6 °C Outlet water temperature: 12°C Inlet air temperature: 23°C d.b.-16°C w.b.	**Total cooling capacity**	kW	max	0.72	1.17	1.61	1.91	2.35	2.90	3.28	4.06	5.00	5.88	7.46	8.21
		kW	med	0.65	1.04	1.43	1.51	2.12	2.49	2.83	3.68	4.36	5.02	5.58	6.91
		kW	min	0.52	0.93	1.15	1.27	1.68	1.99	2.43	3.23	3.46	4.56	4.27	5.04
	Sensible cooling capacity	kW	max	0.65	1.00	1.40	1.68	2.02	2.47	2.66	3.53	4.25	4.88	6.34	6.74
		kW	med	0.58	0.89	1.23	1.32	1.82	2.12	2.29	3.21	3.70	4.17	4.74	5.67
		kW	min	0.45	0.78	0.96	1.09	1.43	1.67	1.95	2.78	2.91	3.78	3.63	4.13
	Water flow	l/s	max	0.030	0.048	0.065	0.078	0.118	0.096	0.133	0.168	0.206	0.242	0.307	0.337
HEATING Using CW Coil Inlet Air Temp 20°C Water Flow / Return 50/40°C	**Heating capacity**	kW	max	1.25	1.87	2.59	3.28	3.66	4.48	5.14	6.69	8.13	10.06	13.08	14.14
		kW	med	1.10	1.65	2.33	2.64	3.27	3.94	4.37	6.18	6.98	8.54	9.93	11.93
		kW	min	0.85	1.47	1.87	2.11	2.57	3.12	3.79	5.36	5.62	7.77	7.75	8.67
	Water flow	l/s	max	0.041	0.061	0.104	0.121	0.149	0.184	0.207	0.267	0.330	0.382	0.480	0.527
FURTHER DATA	**Electric heater capacity**	kW	-		1.00	1.00	1.00	2.00	2.00	2.00	3.00	3.00			
		A	-		4.35	4.35	4.35	8.7	8.7	8.7	13.04	13.04			
	Air flow	m^3/s	max	0.063	0.080	0.112	0.126	0.160	0.190	0.197	0.294	0.345	0.377	0.559	0.556
		m^3/s	med	0.053	0.068	0.098	0.096	0.138	0.161	0.161	0.264	0.282	0.304	0.381	0.442
		m^3/s	min	0.038	0.058	0.075	0.073	0.101	0.119	0.135	0.219	0.214	0.269	0.275	0.293
	Guide NR level	dB(A)	max	33	31	32	34	35	40	27	43	49	48	51	52
		dB(A)	med	28	27	29	28	31	35	32	40	44	42	41	45
		dB(A)	min	19	23	22	20	23	27	38	35	38	40	37	37
	Power input	W	max	30	30	40	50	60	80	70	160	180	213	277	273
	Absorbed current	A	max	0.18	0.25	0.28	0.28	0.45	0.45	0.44	0.96	0.95	0.97	1.27	1.25
	Water content	L	-	0.59	0.93	1.27	1.27	1.61	1.61	2.42	2.93	2.93	3.28	4.04	4.04

TECHNICAL DATA

MODEL FACTORY DEFAULT SPEED SETTINGS				10 2° 4° 5°	20 2° 3° 4°	30 2° 3° 4°	40 2° 3° 5°	50 1° 3° 4°	60 2° 4° 5°	70 3° 4° 5°	80 1° 2° 3°	90 1° 3° 5°	100 2° 3° 5°	110 2° 3° 5°	120 2° 4° 5°
4 pipe system (3R+1R coil)															
COOLING Inlet water temperature: 7 °C Outlet water temperature: 12°C Inlet air temperature: 27°C d.b.-19°C w.b.	**Total cooling capacity**	kW	max	0.99	1.67	2.51	3.11	3.81	4.55	4.82	6.73	8.16	9.13	12.06	12.66
		kW	med	0.90	1.47	2.16	2.32	3.42	3.99	4.23	6.04	7.10	7.94	9.19	10.92
		kW	min	0.72	1.31	1.64	1.86	2.62	3.14	3.64	5.16	5.500	7.23	6.87	7.97
	Sensible cooling capacity	kW	max	0.83	1.27	1.88	2.36	2.78	3.32	3.42	4.98	5.79	6.48	8.68	8.86
		kW	med	0.73	1.10	1.62	1.76	2.49	2.87	2.96	4.47	5.04	5.64	6.61	7.64
		kW	min	0.57	0.97	1.22	1.40	1.91	2.26	2.51	3.82	3.90	5.13	4.94	5.58
	Water flow	l/s	max	0.049	0.081	0.122	0.151	0.184	0.220	0.233	0.328	0.397	0.445	0.588	0.616
COOLING Inlet water temperature: 6 °C Outlet water temperature: 12°C Inlet air temperature: 23°C d.b.-16°C w.b.	**Total cooling capacity**	kW	max	0.72	1.17	1.61	1.91	2.35	2.90	3.28	4.06	5.00	5.88	7.46	8.21
		kW	med	0.65	1.04	1.43	1.51	2.12	2.49	2.83	3.68	4.36	5.02	5.58	6.91
		kW	min	0.52	0.93	1.15	1.27	1.68	1.99	2.43	3.23	3.46	4.56	4.27	5.04
	Sensible cooling capacity	kW	max	0.65	1.00	1.40	1.68	2.02	2.47	2.66	3.53	4.25	4.88	6.34	6.74
		kW	med	0.58	0.89	1.23	1.32	1.82	2.12	2.29	3.21	3.70	4.17	4.74	5.67
		kW	min	0.45	0.78	0.96	1.09	1.43	1.67	1.95	2.78	2.91	3.78	3.63	4.13
	Water flow	l/s	max	0.030	0.048	0.065	0.078	0.118	0.096	0.133	0.168	0.206	0.242	0.307	0.337
HEATING Using LPHW Coil Inlet Air Temp 21°C Water Flow / Return 80/70°C	**Heating capacity**	kW	max	1.65	2.65	3.46	4.40	4.26	6.06	8.00	10.87	13.07	15.20	19.26	20.16
		kW	med	1.47	2.31	3.03	3.53	3.93	5.36	7.00	9.87	11.57	13.30	15.16	17.46
		kW	min	1.20	2.03	2.35	2.88	3.14	4.38	6.09	8.67	9.27	12.20	11.76	13.16
	Water flow	l/s	max	0.040	0.065	0.085	0.108	0.104	0.148	0.196	0.266	0.320	0.372	0.471	0.493
HEATING Using LPHW Coil Inlet Air Temp 21°C Water Flow / Return 50/40°C	**Heating capacity**	kW	max	0.56	1.10	1.43	1.94	1.79	2.63	3.60	4.74	5.67	6.70	8.40	8.90
		W	med	0.50	0.94	1.31	1.50	1.65	2.32	3.15	4.32	5.09	5.91	6.56	7.66
		W	min	0.40	0.82	0.98	1.23	1.34	1.90	2.72	3.79	4.09	5.44	5.19	5.87
	Water flow	l/s	max	0.013	0.026	0.035	0.046	0.043	0.062	0.086	0.113	0.135	0.160	0.199	0.211
FURTHER DATA	**Air flow**	m^3/s	max	0.063	0.080	0.112	0.126	0.160	0.190	0.197	0.294	0.345	0.377	0.559	0.556
		m^3/s	med	0.053	0.068	0.098	0.096	0.138	0.161	0.161	0.264	0.282	0.304	0.381	0.442
		m^3/s	min	0.038	0.058	0.075	0.073	0.101	0.119	0.135	0.219	0.214	0.269	0.275	0.293
	Guide NR level	dB(A)	max	33	31	32	34	35	40	27	43	49	48	51	52
		dB(A)	med	28	27	29	28	31	35	32	40	44	42	41	45
		dB(A)	min	19	23	22	20	23	27	38	35	38	40	37	37
	Power input	W	max	30	30	40	50	60	80	70	160	180	213	277	273
	Absorbed current	A	max	0.18	0.25	0.28	0.28	0.45	0.45	0.44	0.96	0.95	0.97	1.27	1.25
	Water content (cooling)	L	-	0.59	0.93	1.27	1.27	1.61	1.61	2.42	2.93	2.93	3.28	4.04	4.04
	Water content (heating)	L	-	0.19	0.31	0.42	0.42	0.53	0.53	0.53	1.29	1.29	1.09	1.35	1.35

OPERATING LIMITS

Maximum inlet water temperature	80 °C
Minimum inlet water temperature	4 °C
Max working pressure	8 bar

Maximum inlet air temperature	32 °C
Minimum inlet air temperature	4 °C

CHASSIS UNIT FAN STATIC PRESSURE LIMITS

When connecting ductwork to Topaz vertical or horizontal chassis versions, the maximum fan static pressure limits should be observed.
The table below depicts the maximum static pressure avalable in relation to unit model size and fan speed. At these maxima, the unit airflow is reduced by approximately 50% of that available with free discharge. The associated heating and cooling duties reduce by corresponding amounts.
MAX / MED / MIN in the the table denotes the factory default speed settings.

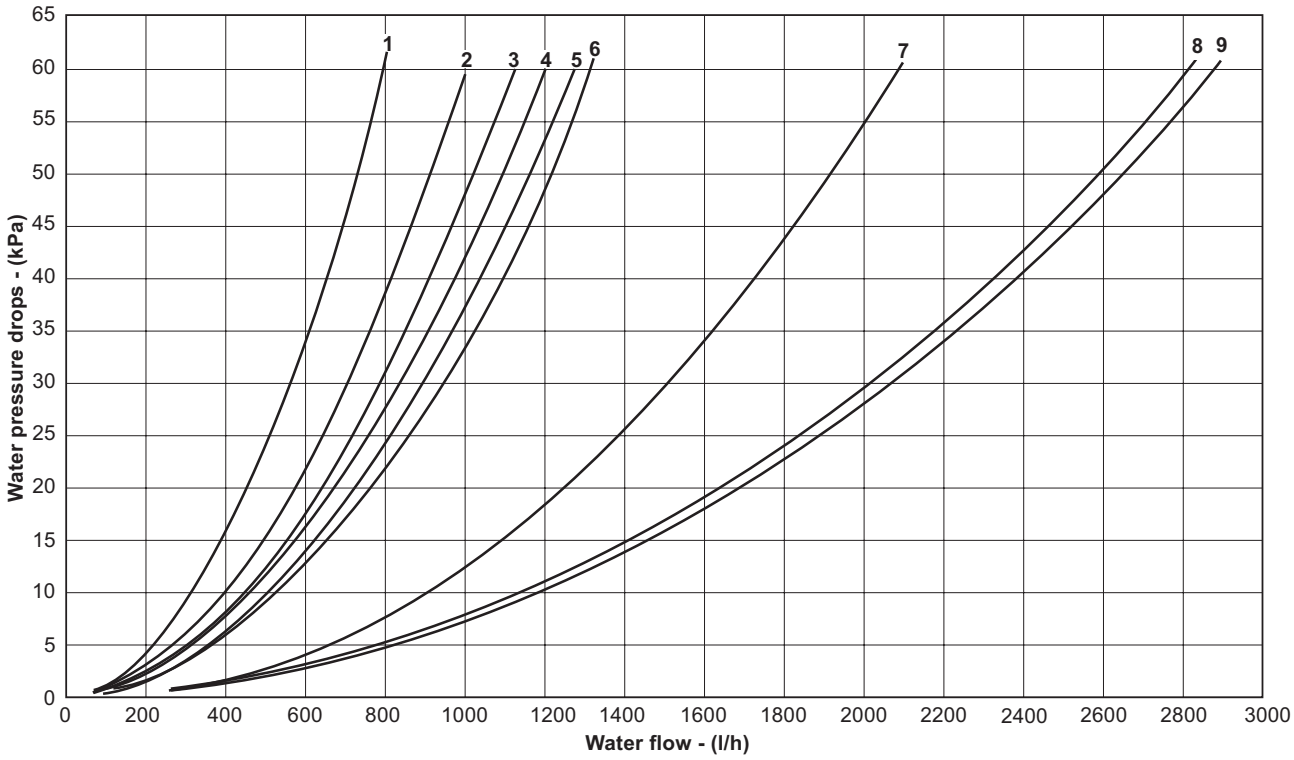
			MODEL											
			TPZ10	TPZ20	TPZ30	TPZ40	TPZ50	TPZ60	TPZ70	TPZ80	TPZ90	TPZ100	TPZ110	TPZ120
2 pipe system	Pa	1	9	12	7	9	**19** min	12	15	41 min	33 min	44	37	47
	Pa	2	**11** min	**15** min	**10** min	**11** min	22	**16** min	19	51 med	41	49 min	47 min	58 min
	Pa	3	15	**19** med	**15** med	**17** med	**28** med	22	26 min	55 max	45 med	62 med	68 med	74
	Pa	4	**18** med	**25** max	**19** max	22	**32** max	**28** med	34 med	60	49	68	76	80 med
	Pa	5	**25** max	32	25	**27** max	40	**36** max	44 max	65	53 max	75 max	84 max	84 max
	Pa	6	32	40	32	37	49	45	54	70	60	84		
4 pipe system	Pa	1	8	10	6	8	**14** min	10	11	30 min	27 min	43	37	47
	Pa	2	**9** min	**12** min	**8** min	**9** min	17	**13** min	15	38 med	33	48 min	47 min	58 min
	Pa	3	11	**15** med	**13** med	**14** med	**21** med	18	20 min	42 max	37 med	61 med	67 med	73
	Pa	4	**15** med	**19** max	**15** max	17	**25** max	**22** med	28 med	50	40	67	75	79 med
	Pa	5	**19** max	25	19	**22** max	32	**28** max	36 max	55	44 max	74 max	83 max	82 max
	Pa	6	25	32	24	30	38	35	44	60	51	82		

SOUND POWER SPECTRUM

Model	Speed	Factory Default Speed Settings	Frequency (Hz)							Total sound power dB(A)
			125	250	500	1000	2000	4000	8000	
TPZ10	1		33.7	32.7	32.2	24	21.4	14.5	5.6	32
	2	**Min**	**33**	**34.7**	**32.7**	**25.9**	**22.5**	**14.8**	**5.8**	**33**
	3		36	37.6	37.1	30.6	25	17.6	6.9	37
	4	**Med**	**37.9**	**41**	**41**	**35.4**	**29.5**	**21.1**	**8.8**	**41**
	5	**Max**	**42.1**	**45.1**	**45.5**	**40.8**	**35.6**	**27.7**	**16.1**	**46**
	6		46.6	49.4	50.2	45.9	41.9	34.8	24.5	51
TPZ20	1		29.2	34.8	31.9	23.5	19.6	14.7	10.1	32
	2	**Min**	**33.1**	**37.8**	**36**	**28.8**	**23.7**	**17**	**11.5**	**36**
	3	**Med**	**36.9**	**40.9**	**40**	**33.6**	**28.5**	**20.9**	**13.7**	**40**
	4	**Max**	**40.2**	**43.9**	**43.9**	**38**	**33.5**	**25.2**	**16.9**	**44**
	5		44.7	48.3	48.7	43	39.8	32.2	25.2	49
	6		48.8	51.9	51.9	46.9	45.6	37.7	29.9	53
TPZ30	1		31.4	33.4	28.6	20.7	21.6	13.6	13	30
	2	**Min**	**32.7**	**35.5**	**32.7**	**25**	**22.1**	**14**	**12.3**	**33**
	3	**Med**	**38.2**	**40.9**	**39.8**	**34.3**	**27.8**	**18.3**	**13.8**	**40**
	4	**Max**	**41.8**	**44.1**	**43.5**	**38.9**	**32.4**	**23.3**	**16.5**	**44**
	5		44.5	46.5	46.2	42.2	36	28.1	19.3	47
	6		48.2	50.2	50.1	46.2	40.7	34	26.8	51
TPZ40	1		31.4	33.4	28.6	20.7	21.6	13.6	13	30
	2	**Min**	**32.7**	**35.5**	**32.7**	**25**	**22.1**	**14**	**12.3**	**33**
	3	**Med**	**38.2**	**40.9**	**39.8**	**34.3**	**27.8**	**18.3**	**13.8**	**40**
	4		41.8	44.1	43.5	38.9	32.4	23.3	16.5	44
	5	**Max**	**44.5**	**46.5**	**46.2**	**42.2**	**36**	**28.1**	**19.3**	**47**
	6		48.2	50.2	50.1	46.2	40.7	34	26.8	50
TPZ50	**1**	**Min**	**35.3**	**39.2**	**35.5**	**26.3**	**29.2**	**25.1**	**23.9**	**37**
	2		37.6	41	38.6	29.9	29.2	25	24.3	39
	3	**Med**	**41.5**	**44.8**	**42.9**	**35.3**	**31.3**	**26**	**24.8**	**43**
	4	**Max**	**45.1**	**48**	**47**	**40.6**	**35.2**	**28**	**25.2**	**47**
	5		49	51.2	50.8	45.2	39.9	32.5	28.6	51
	6		53.4	55.6	55.3	50.4	46.3	39.5	31.7	56
TPZ60	1		32.3	36.2	32.5	23.3	26.2	22.1	20.9	34
	2	**Min**	**36.6**	**40**	**37.6**	**28.9**	**28.2**	**24**	**23.3**	**38**
	3		40.5	43.8	41.9	34.3	30.3	25	23.8	42
	4	**Med**	**45.1**	**48**	**47**	**40.6**	**35.2**	**28**	**25.2**	**47**
	5	**Max**	**50**	**52.2**	**51.8**	**46.2**	**40.9**	**33.5**	**29.6**	**52**
	6		54.4	56.6	56.3	51.4	47.3	40.5	32.7	57
TPZ70	1		34.5	37.2	33.1	26.2	25.3	22.5	19.6	36
	2		35.4	40.3	37.1	29.7	27.5	24.2	21.6	38
	3	**Min**	**39.7**	**43.3**	**41.4**	**34.5**	**31.2**	**26.1**	**22.3**	**42**
	4	**Med**	**43.1**	**46.9**	**46**	**39.8**	**36.3**	**28.3**	**24.8**	**46**
	5	**Max**	**48.5**	**51.3**	**51.3**	**45.6**	**42.4**	**34.5**	**27**	**52**
	6		53.2	56.2	55.8	51.1	48.6	41.8	32.9	57
TPZ80	**1**	**Min**	**47.6**	**50.7**	**50.3**	**45.1**	**41.8**	**36**	**29**	**51**
	2	**Med**	**52.3**	**55**	**55.2**	**50.2**	**47.3**	**41.9**	**34.3**	**56**
	3	**Max**	**53.9**	**56.9**	**56.8**	**52.3**	**49.7**	**44.6**	**37.5**	**58**
	4		56.3	59.7	59.5	55.4	53	48.4	42.2	61
	5		59.5	62.6	62.1	58.3	56.1	51.8	46.3	64
	6		62.5	65.7	64.9	61.4	59.3	55.4	50.7	67
TPZ90	**1**	**Min**	**48**	**50.1**	**50.7**	**45**	**41.3**	**36.2**	**29.8**	**51**
	2		50.7	53.4	54.5	49.1	45.8	40.6	33.4	55
	3	**Med**	**53.4**	**56.2**	**57**	**52.4**	**49.4**	**44.6**	**37.6**	**58**
	4		55.9	59.1	59.6	55.4	52.7	48.2	42.1	61
	5	**Max**	**58.8**	**61.9**	**62.4**	**58.4**	**55.9**	**51.7**	**46.4**	**64**
	6		61.3	65	65	61.6	59.2	55.3	50.8	67
TPZ100	1		52.3	53.5	50.8	46.7	40.6	31.9	28.3	52
	2	**Min**	**54.7**	**56.2**	**53.8**	**50.1**	**44.1**	**35.3**	**28.5**	**55**
	3	**Med**	**56.7**	**57.8**	**55.5**	**52.2**	**46.8**	**38.6**	**30.9**	**57**
	4		59.5	60.7	58.1	55.2	50.3	42.9	38.1	60
	5	**Max**	**62.1**	**63.5**	**60.7**	**58.3**	**53.8**	**46.9**	**39.9**	**63**
	6		63.3	65.7	62.5	60.2	56.1	49.7	43	65
TPZ110	1		50.4	49.1	46	41.3	34.1	26.6	24.1	47
	2	**Min**	**52.9**	**51.6**	**49**	**44.7**	**37.8**	**29.1**	**23.6**	**50**
	3	**Med**	**60.2**	**58.8**	**56.4**	**53.1**	**47.7**	**39.7**	**31.6**	**58**
	4		62.1	61.6	59	56.2	51.4	44.2	37.7	61
	5	**Max**	**67.1**	**67.1**	**64.4**	**62.2**	**58.3**	**52.3**	**46.1**	**67**
TPZ120	1		52.8	51.1	47.5	43.5	36.7	29.4	25.7	49
	2	**Min**	**54.7**	**52.9**	**49.6**	**45.4**	**39.4**	**31.3**	**26.2**	**51**
	3		60.7	60.2	57.1	53.8	49.2	41.6	33.8	59
	4	**Med**	**62.4**	**62.2**	**58.9**	**55.9**	**51.6**	**44.7**	**37.8**	**61**
	5	**Max**	**66.8**	**66.9**	**63.2**	**61.1**	**57.3**	**51.5**	**45.4**	**66**

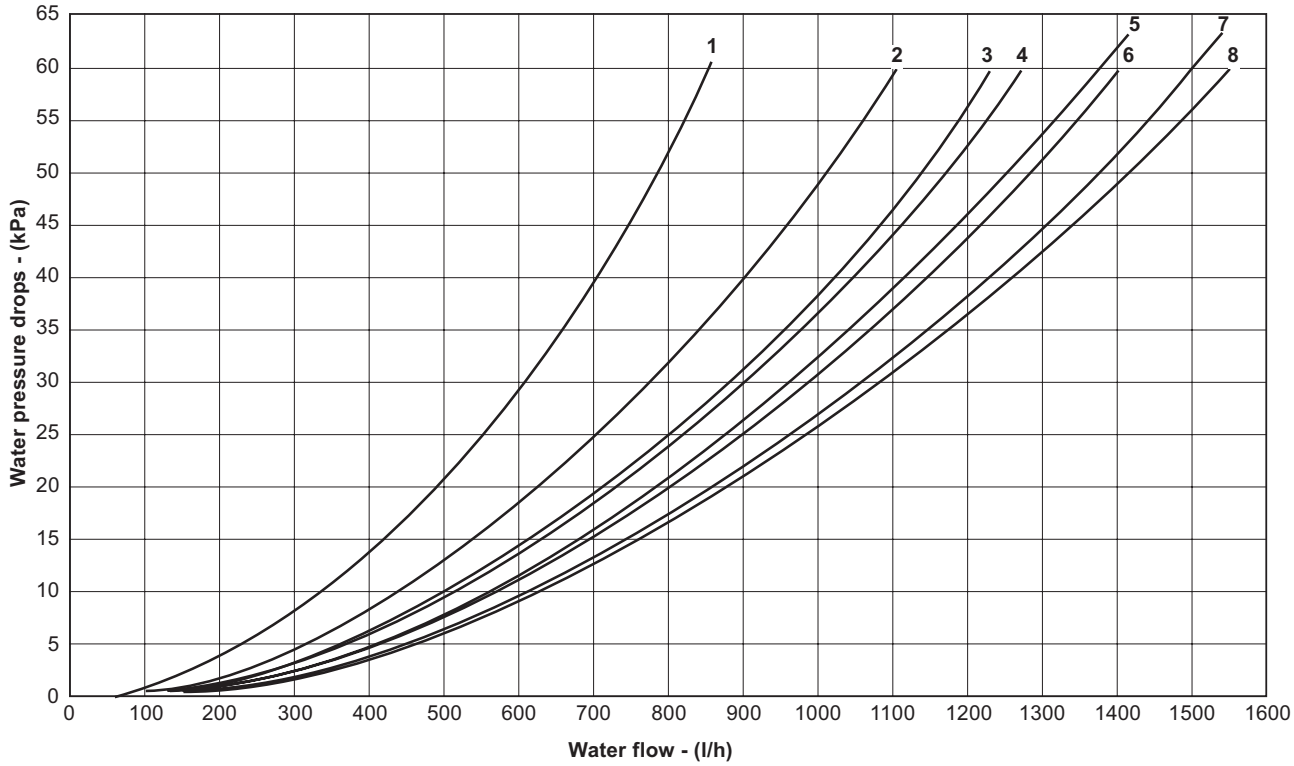
COIL WATER PRESSURE DROPS

CW COIL (@ MWT = 9.5° C)



1= TPZ 70 2= TPZ 50-60 3= TPZ 30-40 4= TPZ 20 5= TPZ 10 6= TPZ 80-90 7= TPZ 100 8= TPZ 120 9= TPZ 110

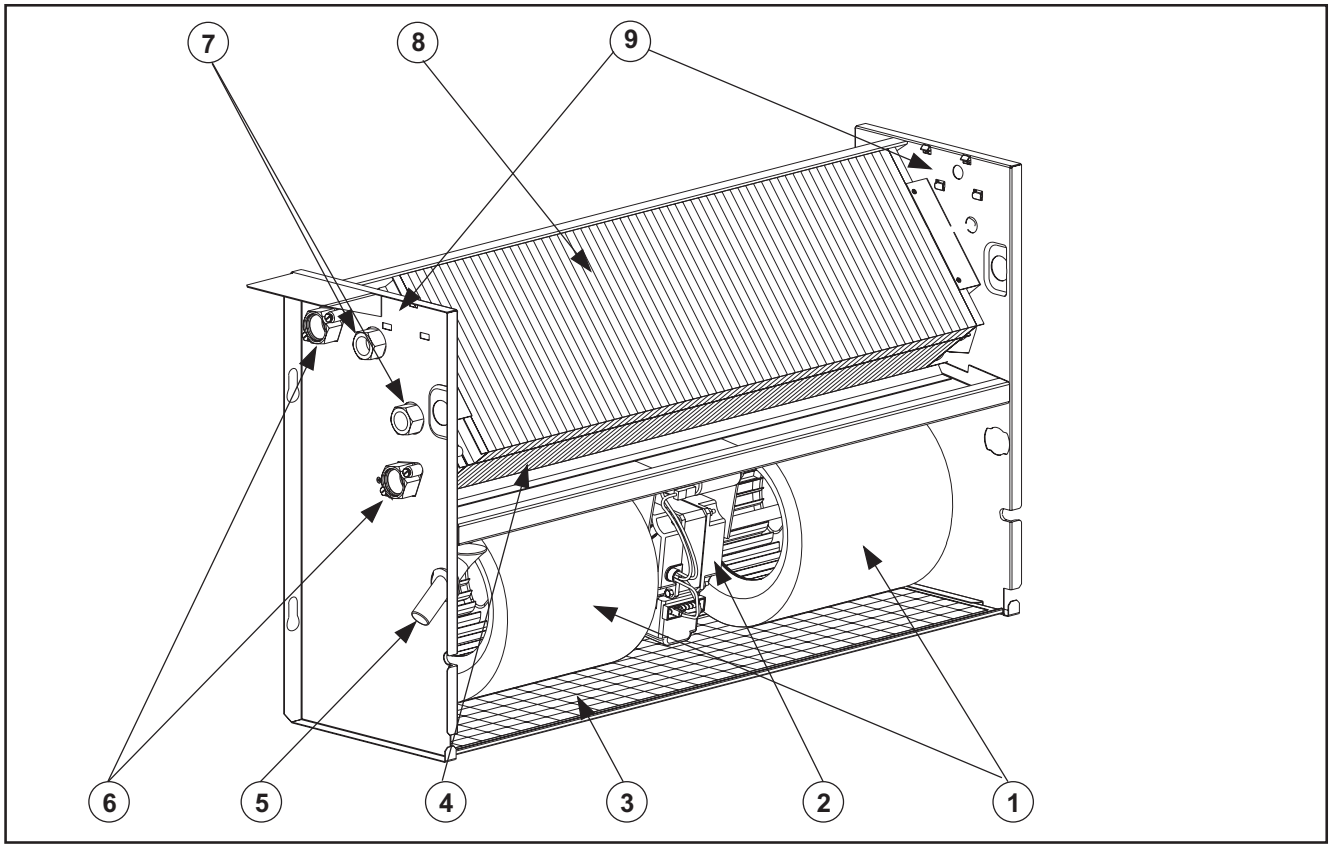
LPHW COIL (@ MWT = 65° C)



1= TPZ 100 2= TPZ 80-90 3= TPZ 70 4= TPZ 50-60 5= TPZ 30-40 6= TPZ 110-120 7= TPZ 20 8= TPZ 10

GENERAL FEATURES AND MAIN COMPONENTS

1 Centrifugal fan
2 Fan motor
3 Air filter
4 Heat exchanger (CW Coil)
5 Gravity Drain
6 Water connections (CW Coil)
7 Water connections (LPHW Coil)
8 Heat exchanger (LPHW Coil)
9 Chassis



STRUCTURE - Galvanized steel sheet (1 mm thick), painted steel, insulated condensate drain tray with gravity drain outlet. Wall mounting slots for ease of fixing + levelling

HEAT EXCHANGER - Copper tube with aluminium fins. Brass headers with female BSP fittings and easily accessed air bleed points. Left or right handed connections (viewed when facing the air discharge) are available.

FAN DECK - Double-inlet forward curved centrifugal fans with statically and dynamically balanced horizontally-aligned aluminium impellers. 5 or 6 speed (3 connected),single phase electric motor with thermal overload protection. The motor is directly coupled to the fans via flexible connections to ensure a quiet operation.

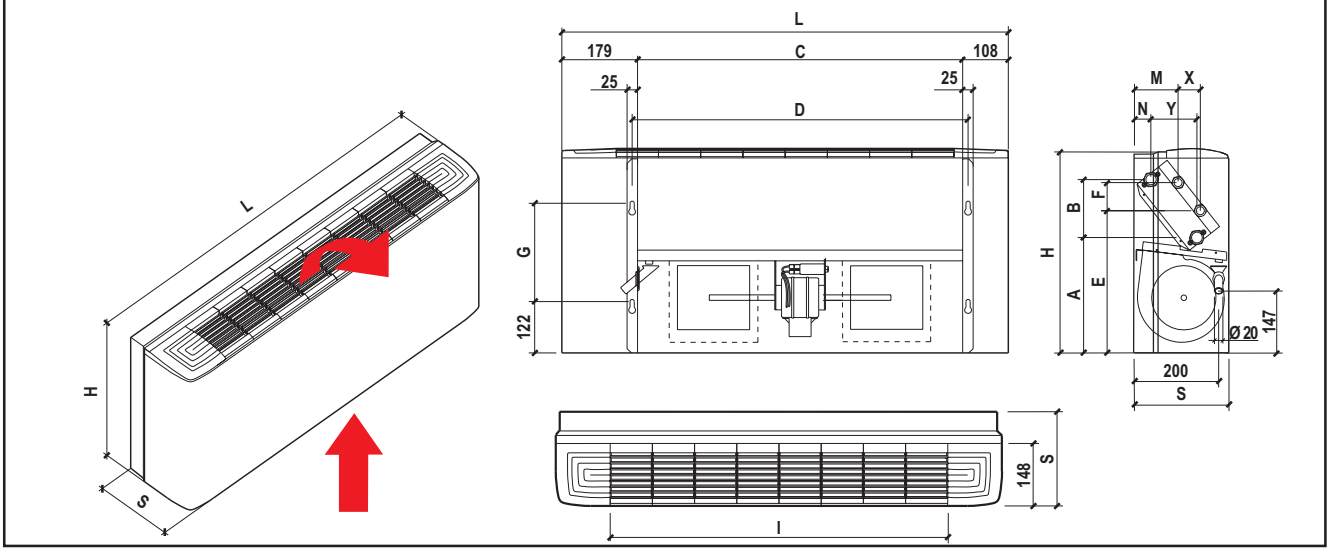
CABINET - Modern design in hot-dip galvanized steel sheet pre-coated with PVC to ensure high resistance to corrosion, chemical agents, solvents and alcohols. ABS plastic air grilles. The standard cabinet colour is RAL 9016 white.

FILTER - Metal frame with polypropylene mesh. Easily withdrawn for cleaning. The standard filter grade is EU1

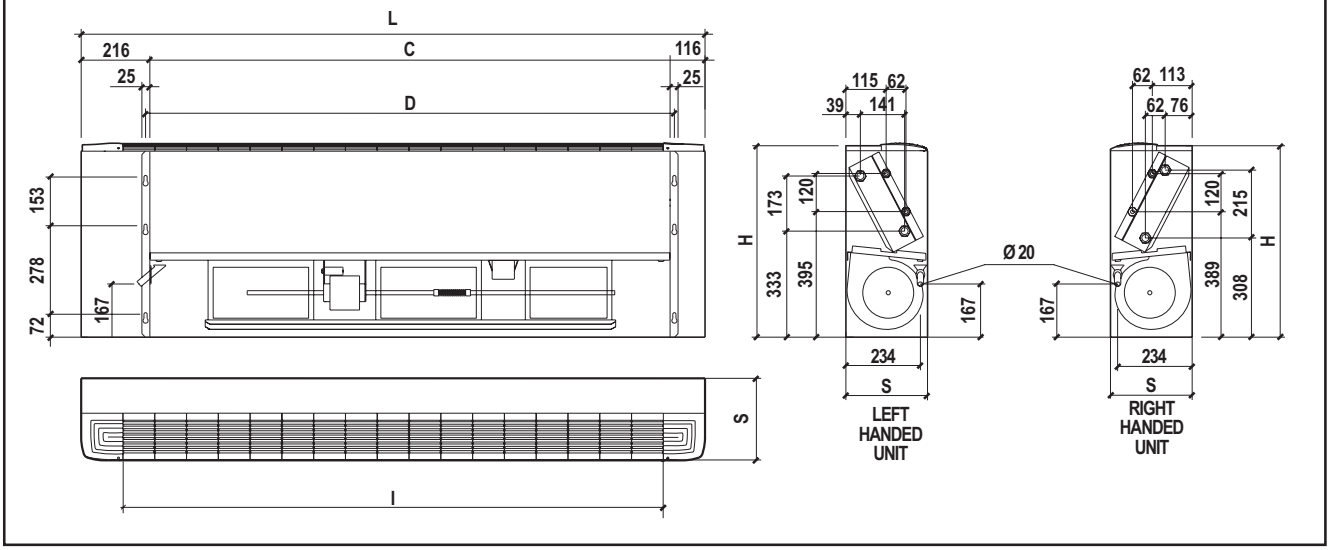
GRILLES - 100 mm wide ABS plastic grille. The standard grille colour is RAL 7035 light grey. Note that on units fitted with optional electric heaters, nylon grilles will be fitted.

VERSION 0 - Wall mounted with cabinet (bottom air intake)

TPZ 10-90



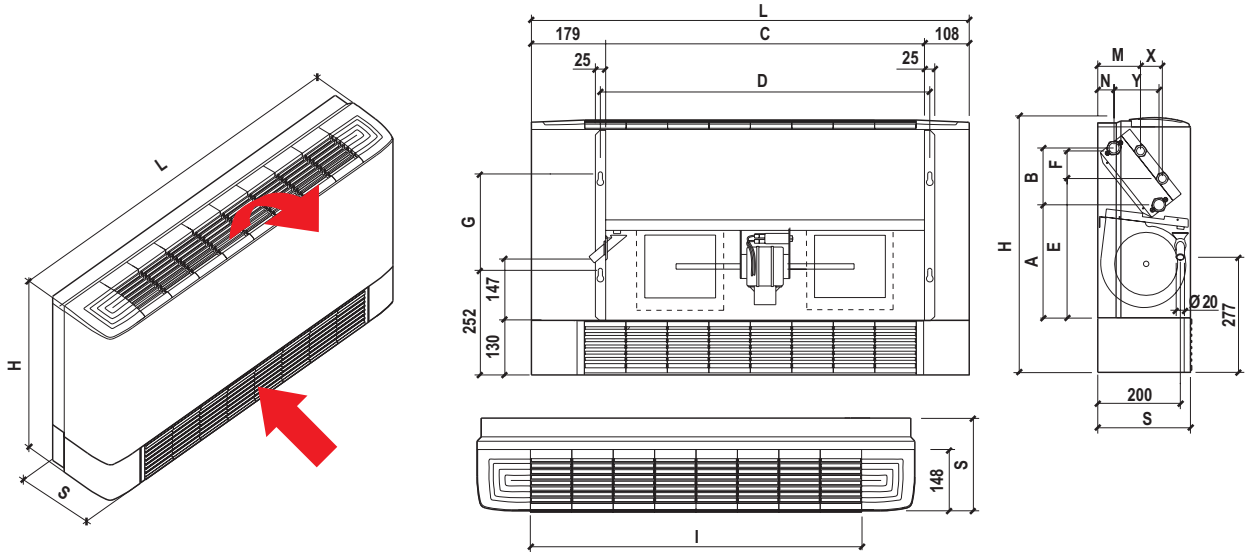
TPZ 100-120



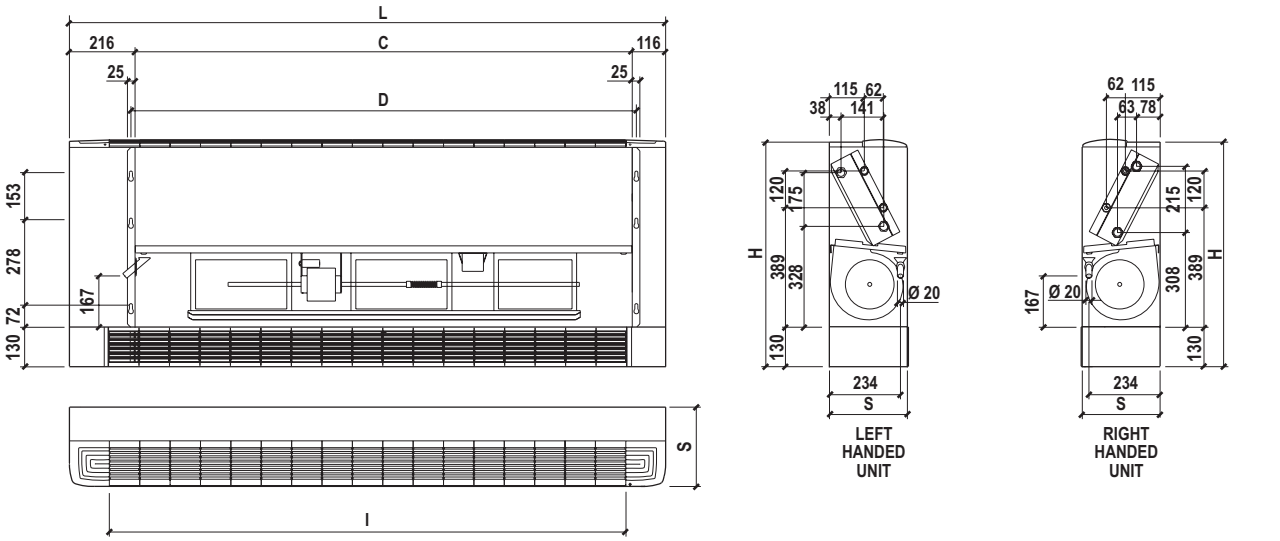
		Dimensions				Distance between slots		CW Coil				LPHW Coil				No of grilles
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I
TPZ10		480	660	225	370	395	233	39	109	274	137	103	53	337	67	4
TPZ20		480	860	225	570	595	233	39	109	274	137	103	53	337	67	6
TPZ30		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8
TPZ40		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8
TPZ50		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10
TPZ60		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10
TPZ70		585	1,260	225	970	995	253	41	107	268	253	101	52	374	124	10
TPZ80		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12
TPZ90		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12
TPZ100		602	1,661	257	1,335	1,362	-	-	-	-	-	-	-	-	-	14
TPZ110		602	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17
TPZ120		602	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17

VERSION 8 - Wall mounted with cabinet (front air intake with plinth)

TPZ 18-98



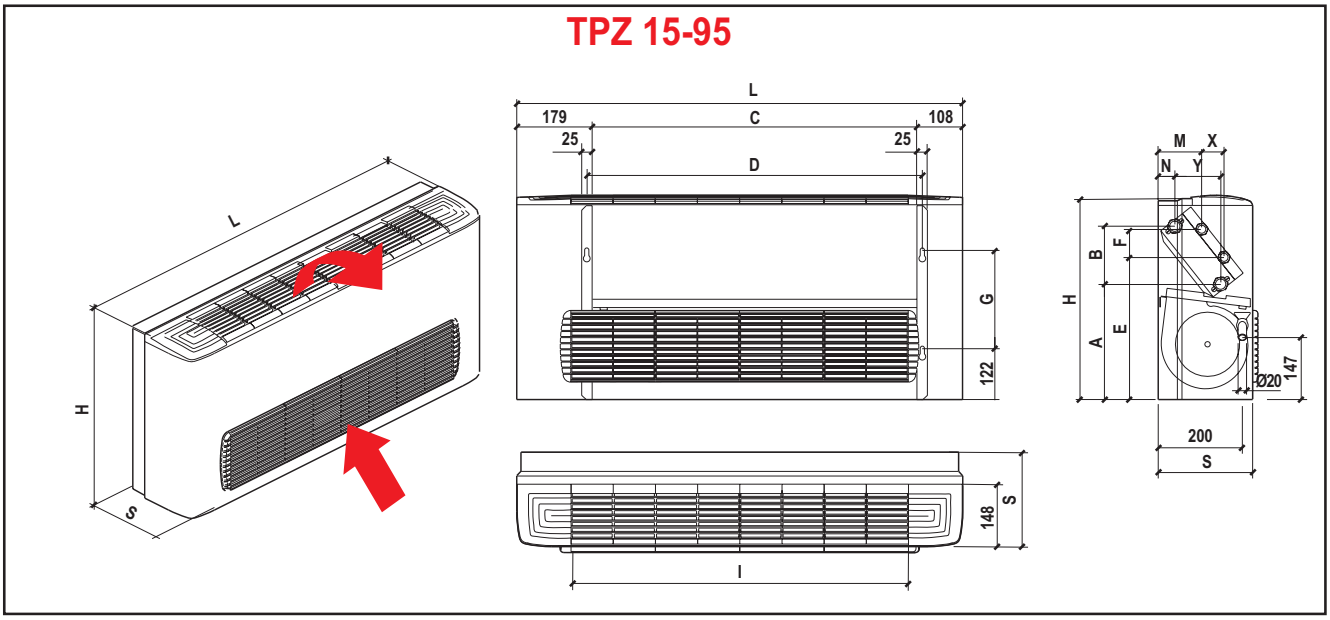
TPZ 108-128



		Dimensions				Distance between slots		CW Coil				LPHW Coil				No of grilles
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I
TPZ18		610	660	225	370	395	233	39	109	274	137	103	53	337	67	4
TPZ28		610	860	225	570	595	233	39	109	274	137	103	53	337	67	6
TPZ38		610	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8
TPZ48		610	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8
TPZ58		610	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10
TPZ68		610	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10
TPZ78		715	1,260	225	970	995	253	41	107	268	253	101	52	374	124	10
TPZ88		715	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12
TPZ98		715	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12
TPZ108		735	1,661	257	1,335	1,362	-	-	-	-	-	-	-	-	-	14
TPZ118		735	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17
TPZ128		735	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17

VERSION 5 - Wall mounted with cabinet (front air intake)

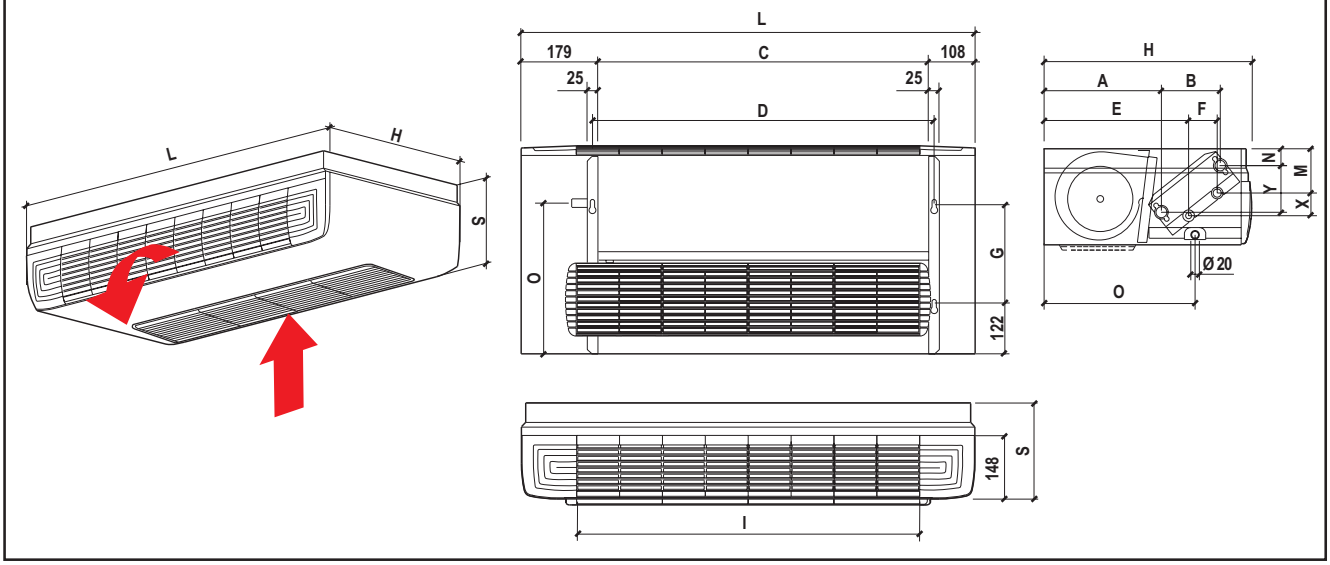
TPZ 15-95



		Dimensions				Distance between slots		CW Coil				LPHW Coil				No of grilles
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I
TPZ15		480	660	225	370	395	233	39	109	274	137	103	53	337	67	4
TPZ25		480	860	225	570	595	233	39	109	274	137	103	53	337	67	6
TPZ35		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8
TPZ45		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8
TPZ55		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10
TPZ65		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10
TPZ75		585	1,260	225	970	995	253	41	107	268	253	101	52	374	124	10
TPZ85		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12
TPZ95		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12

VERSION 4 - Horizontal ceiling models with cabinet (bottom air intake)

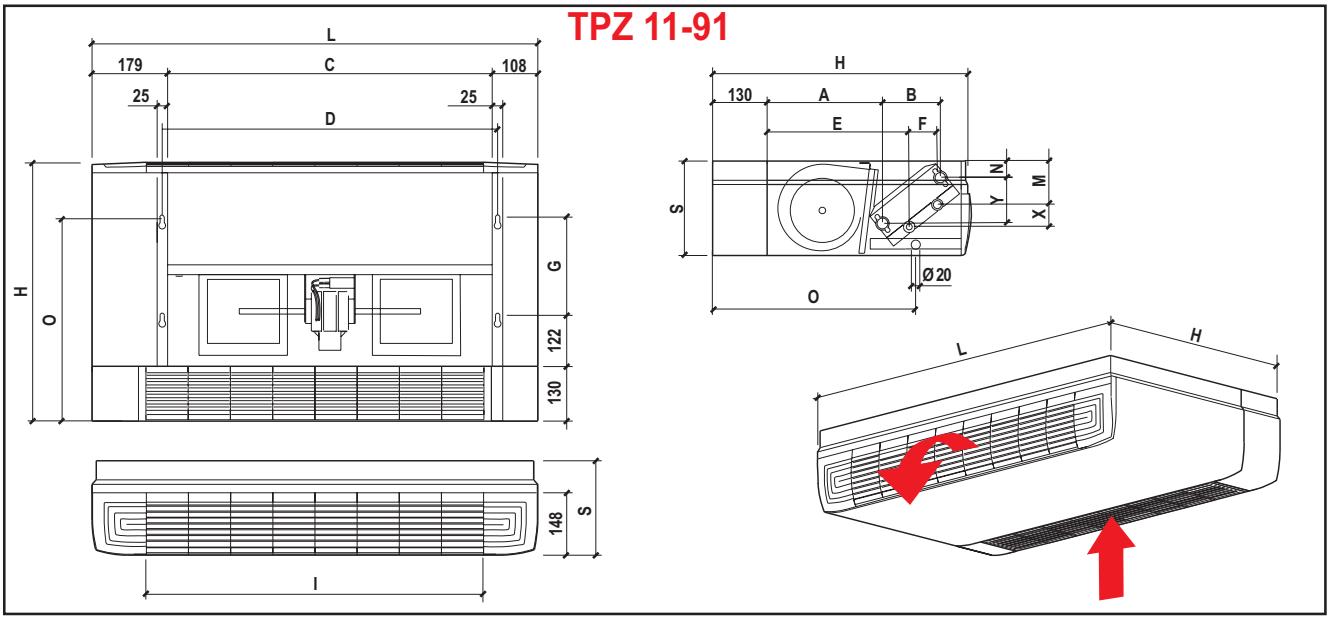
TPZ 14-94



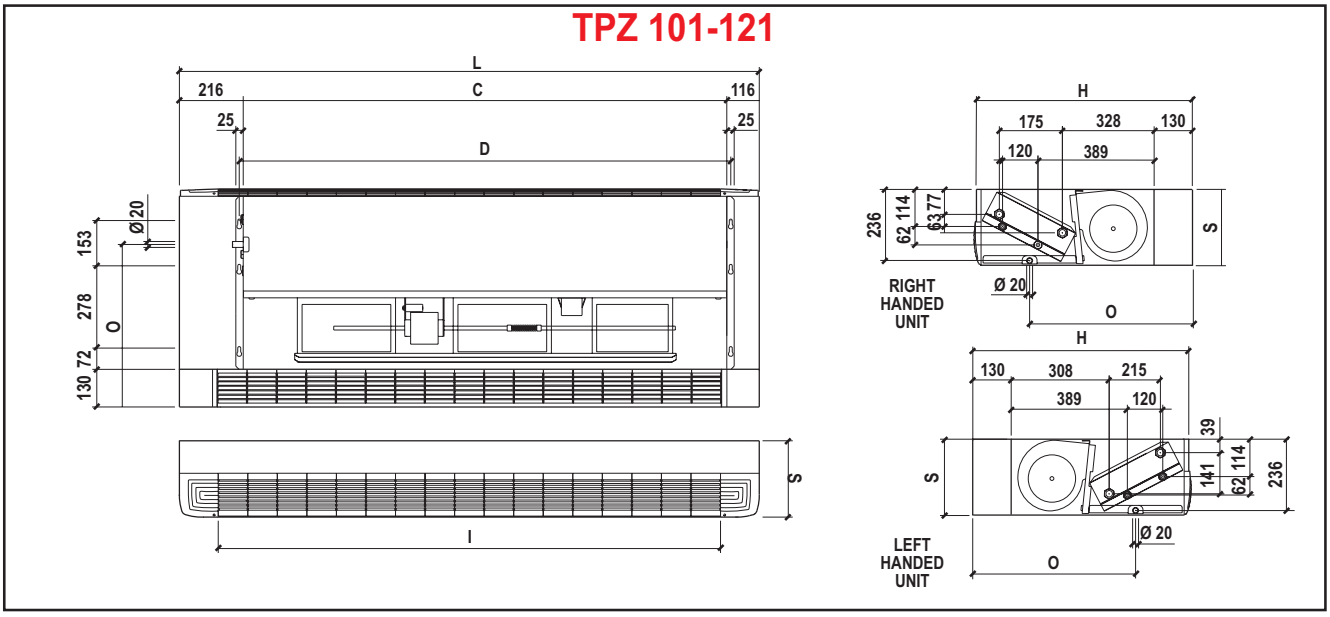
		Dimensions				Distance between slots		CW Coil				LPHW Coil				No of grilles	Conden. fitting
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I	O
TPZ14		480	660	225	370	395	233	39	109	274	137	103	53	337	67	4	352
TPZ24		480	860	225	570	595	233	39	109	274	137	103	53	337	67	6	352
TPZ34		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8	352
TPZ44		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8	352
TPZ54		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10	352
TPZ64		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10	352
TPZ74		585	1,260	225	970	995	253	41	107	268	253	101	52	374	124	10	402
TPZ84		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12	402
TPZ94		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12	402

VERSION 1 - Horizontal ceiling models with cabinet (bottom air intake with plinth)

TPZ 11-91



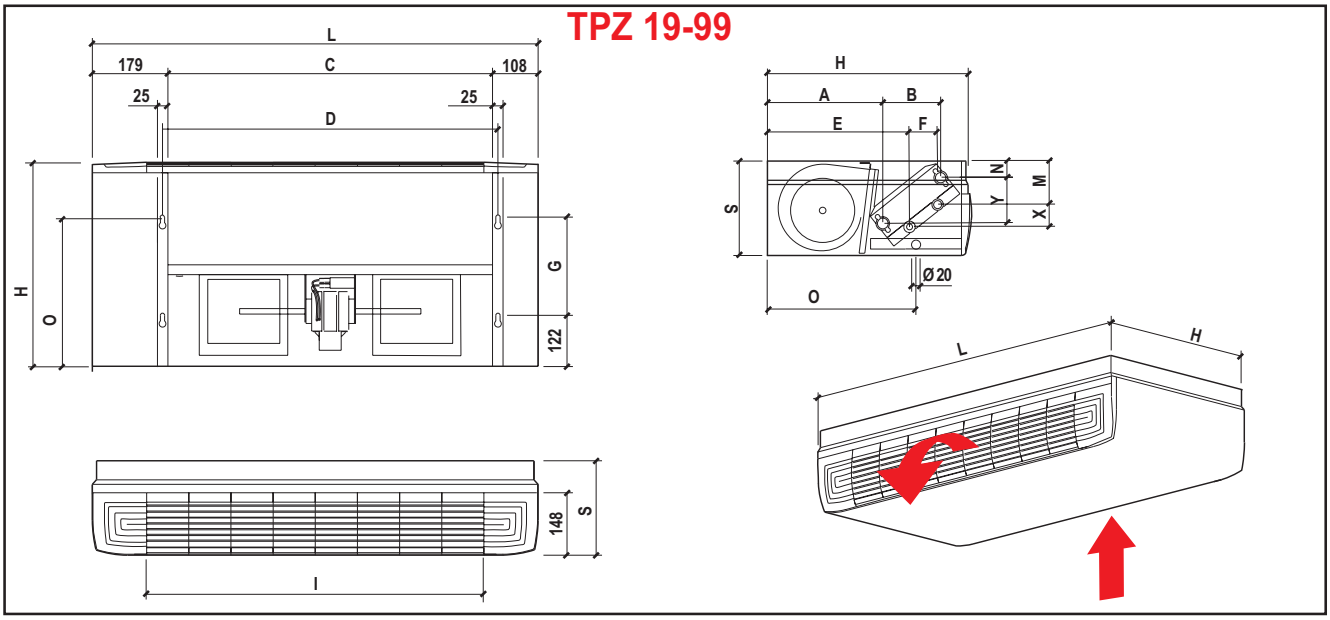
TPZ 101-121



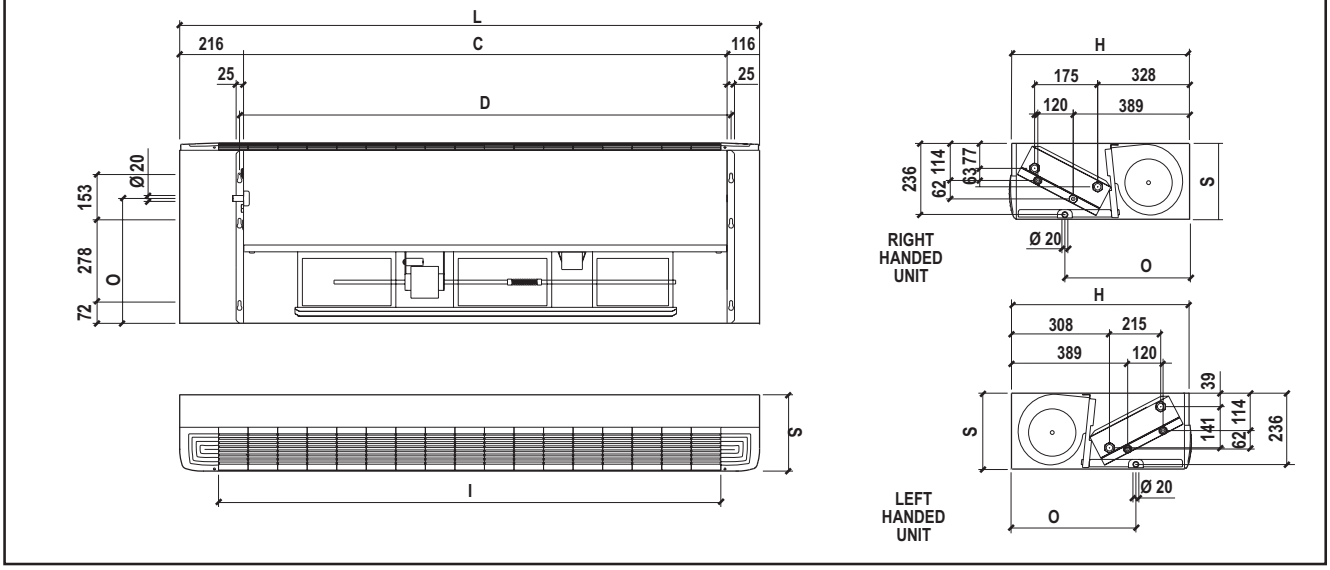
		Dimensions				Distance between slots		CW Coil				LPHW Coil				No of grilles	Conden. fitting
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I	O
TPZ11		610	660	225	370	395	233	39	109	274	137	103	53	337	67	4	482
TPZ21		610	860	225	570	595	233	39	109	274	137	103	53	337	67	6	482
TPZ31		610	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8	482
TPZ41		610	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8	482
TPZ51		610	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10	482
TPZ61		610	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10	482
TPZ71		715	1,260	225	970	995	253	41	107	268	253	101	52	374	124	10	532
TPZ81		715	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12	532
TPZ91		715	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12	532
TPZ101		735	1,661	257	1,335	1,362	-	-	-	-	-	-	-	-	-	14	552
TPZ111		735	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17	552
TPZ121		735	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17	552

VERSION 9 - Horizontal ceiling models with cabinet (rear air intake)

TPZ 19-99



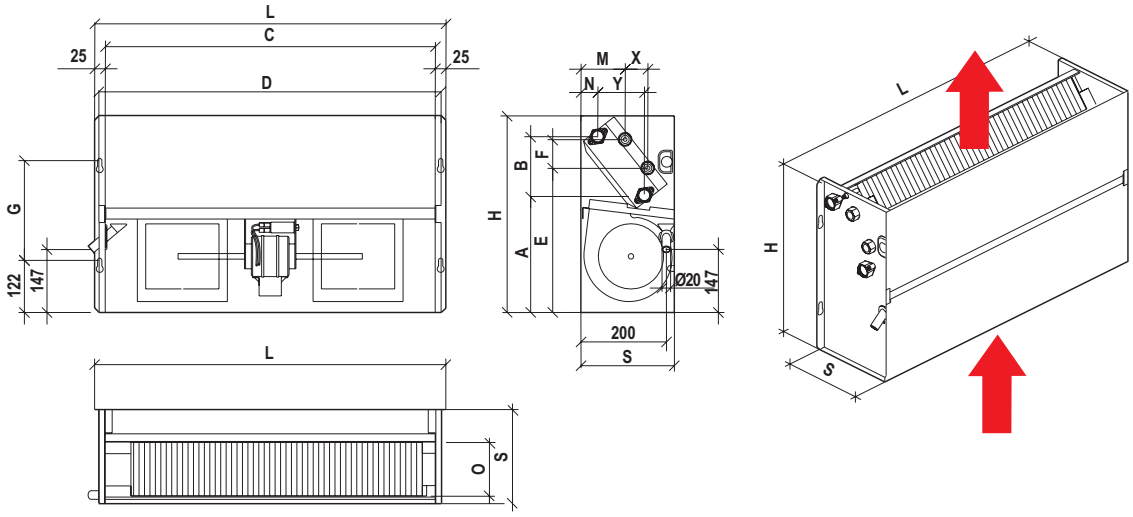
TPZ 109-129



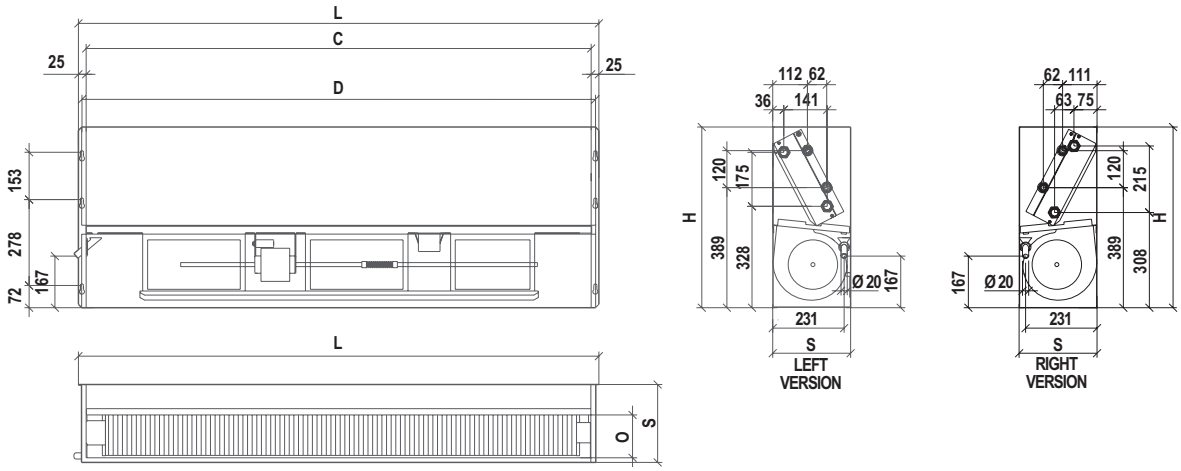
		Dimensions				Distance between slots		CW Coil				LPHW Coil				No of grilles	Conden. fitting
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I	O
TPZ19		480	660	225	370	395	233	39	109	274	137	103	53	337	67	4	352
TPZ29		480	860	225	570	595	233	39	109	274	137	103	53	337	67	6	352
TPZ39		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8	352
TPZ49		480	1,060	225	770	795	233	39	109	274	137	103	53	337	67	8	352
TPZ59		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10	352
TPZ69		480	1,260	225	970	995	233	39	109	274	137	103	53	337	67	10	352
TPZ79		585	1,260	225	970	995	253	41	107	268	253	101	52	374	124	10	402
TPZ89		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12	402
TPZ99		585	1,460	225	1,170	1,195	253	41	107	268	253	101	52	374	124	12	402
TPZ109		605	1,661	257	1,335	1,362	-	-	-	-	-	-	-	-	-	14	422
TPZ119		605	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17	422
TPZ129		605	1,961	257	1,635	1,662	-	-	-	-	-	-	-	-	-	17	422

VERSION 2 - WALL MOUNTED CHASSIS VERSION (VERTICAL DISCHARGE)

TPZ 12-92



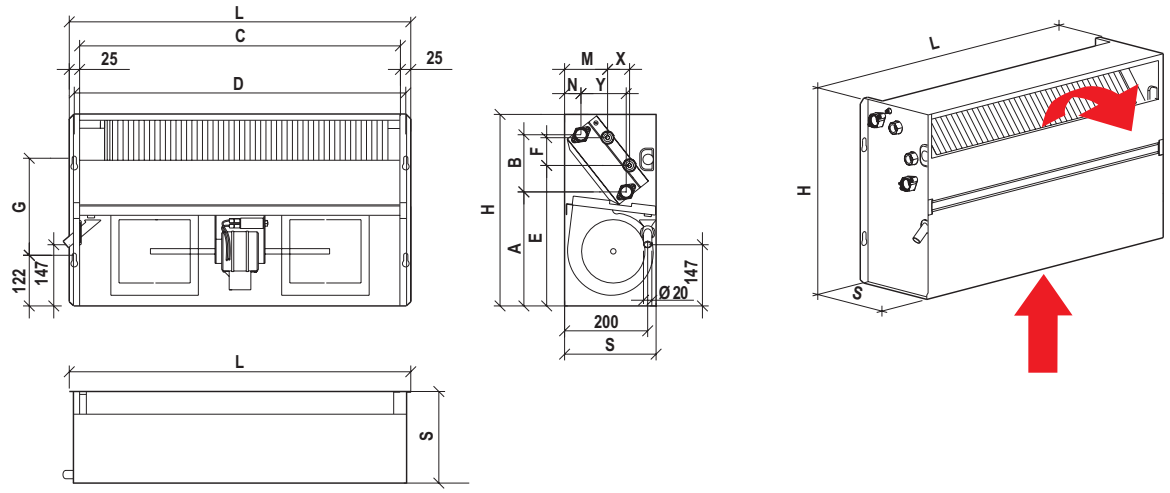
TPZ 102-122



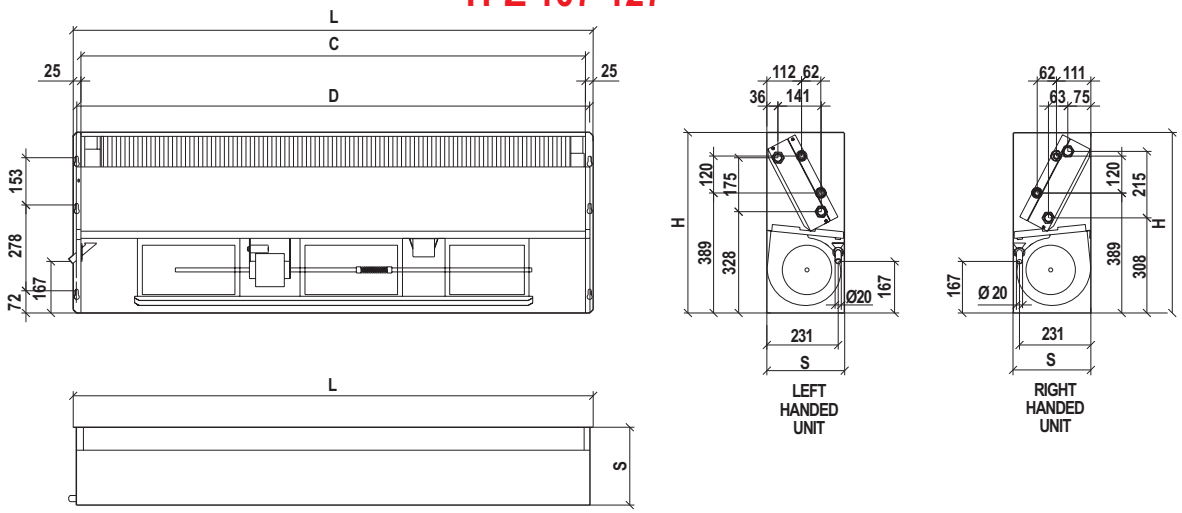
		Dimensions				Distance between slots		CW Coil				LPHW Coil				
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	O
TPZ12		460	420	220	370	395	233	39	109	274	137	103	53	337	67	134
TPZ22		460	620	220	570	595	233	39	109	274	137	103	53	337	67	134
TPZ32		460	820	220	770	795	233	39	109	274	137	103	53	337	67	134
TPZ42		460	820	220	770	795	233	39	109	274	137	103	53	337	67	134
TPZ52		460	1,020	220	970	995	233	39	109	274	137	103	53	337	67	134
TPZ62		460	1,020	220	970	995	233	39	109	274	137	103	53	337	67	134
TPZ72		565	1,020	220	970	995	253	41	107	268	253	101	52	374	124	119
TPZ82		565	1,220	220	1,170	1,195	253	41	107	268	253	101	52	374	124	119
TPZ92		565	1,220	220	1,170	1,195	253	41	107	268	253	101	52	374	124	119
TPZ102		585	1,385	252	1,335	1,362	-	-	-	-	-	-	-	-	-	139
TPZ112		585	1,685	252	1,635	1,662	-	-	-	-	-	-	-	-	-	139
TPZ122		585	1,685	252	1,635	1,662	-	-	-	-	-	-	-	-	-	139

VERSION 7 - WALL MOUNTED CHASSIS VERSION (HORIZONTAL DISCHARGE)

TPZ 17-97



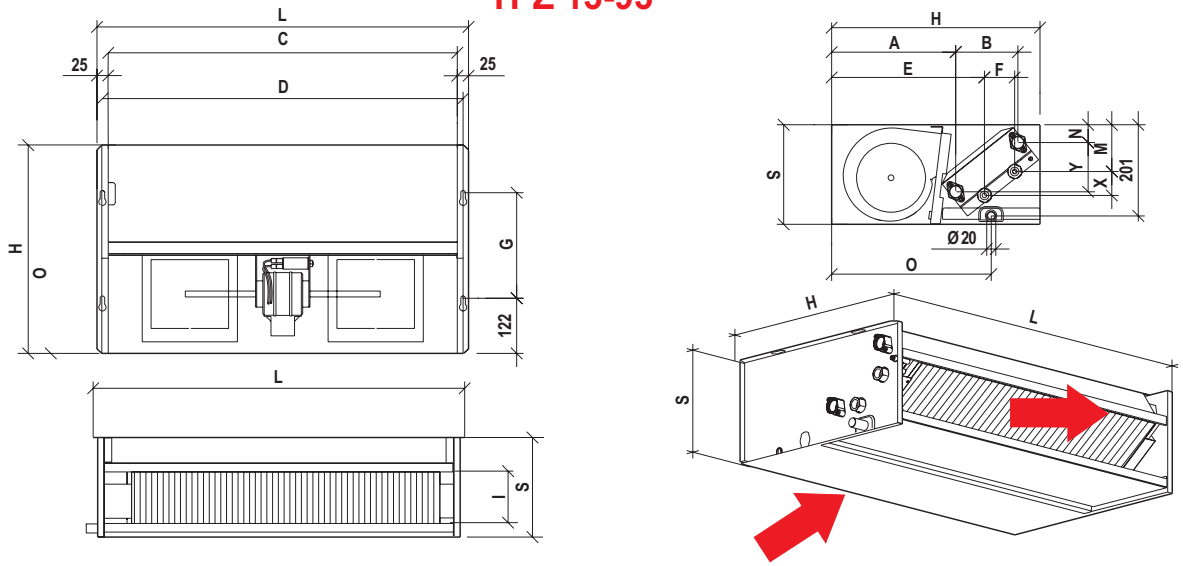
TPZ 107-127



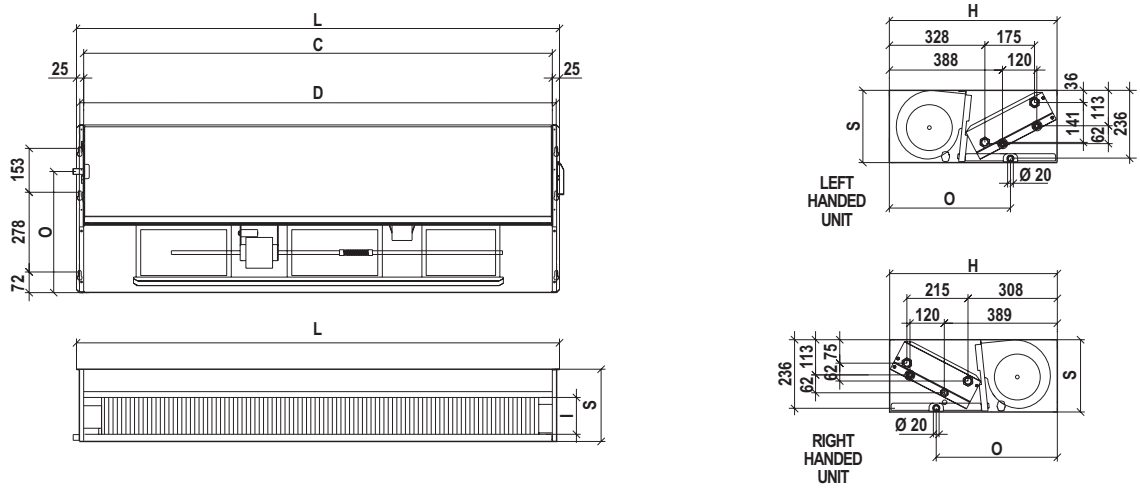
		Dimensions				Distance between slots		CW Coil				LPHW Coil			
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F
TPZ17		460	420	220	370	395	233	39	109	274	137	103	53	337	67
TPZ27		460	620	220	570	595	233	39	109	274	137	103	53	337	67
TPZ37		460	820	220	770	795	233	39	109	274	137	103	53	337	67
TPZ47		460	820	220	770	795	233	39	109	274	137	103	53	337	67
TPZ57		460	1,020	220	970	995	233	39	109	274	137	103	53	337	67
TPZ67		460	1,020	220	970	995	233	39	109	274	137	103	53	337	67
TPZ77		565	1,020	220	970	995	253	41	107	268	253	101	52	374	124
TPZ87		565	1,220	220	1,170	1,195	253	41	107	268	253	101	52	374	124
TPZ97		565	1,220	220	1,170	1,195	253	41	107	268	253	101	52	374	124
TPZ107		585	1,385	252	1,335	1,362	-	-	-	-	-	-	-	-	-
TPZ117		585	1,685	252	1,635	1,662	-	-	-	-	-	-	-	-	-
TPZ127		585	1,685	252	1,635	1,662	-	-	-	-	-	-	-	-	-

VERSION 3 - HORIZONTAL CHASSIS VERSION (HORIZONTAL DISCHARGE)

TPZ 13-93



TPZ 103-123



		Dimensions				Distance between slots		CW Coil				LPHW Coil					
MOD.		H	L	S	C	D	G	N	Y	A	B	M	X	E	F	I	O
TPZ13		460	420	220	370	395	233	39	109	274	137	103	53	337	67	115	352
TPZ23		460	620	220	570	595	233	39	109	274	137	103	53	337	67	115	352
TPZ33		460	820	220	770	795	233	39	109	274	137	103	53	337	67	115	352
TPZ43		460	820	220	770	795	233	39	109	274	137	103	53	337	67	115	352
TPZ53		460	1,020	220	970	995	233	39	109	274	137	103	53	337	67	115	352
TPZ63		460	1,020	220	970	995	233	39	109	274	137	103	53	337	67	115	352
TPZ73		565	1,020	220	970	995	253	41	107	268	253	101	52	374	124	99	402
TPZ83		565	1,220	220	1,170	1,195	253	41	107	268	253	101	52	374	124	99	402
TPZ93		565	1,220	220	1,170	1,195	253	41	107	268	253	101	52	374	124	99	402
TPZ103		585	1,385	252	1,335	1,362	-	-	-	-	-	-	-	-	-	129	422
TPZ113		585	1,685	252	1,635	1,662	-	-	-	-	-	-	-	-	-	129	422
TPZ123		585	1,685	252	1,635	1,662	-	-	-	-	-	-	-	-	-	129	422

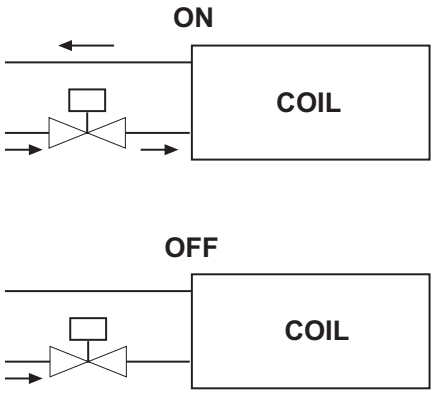
FACTORY FITTED OPTIONS

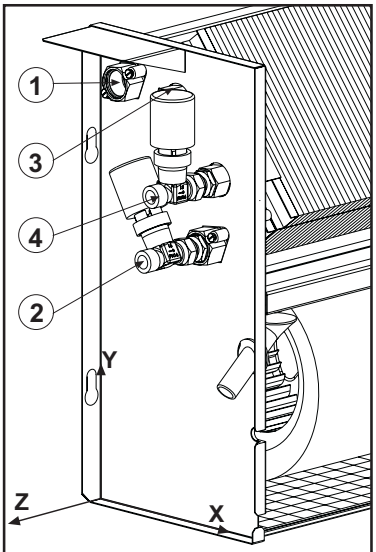
ON/OFF 2-WAY VALVE KIT

The valve body is in brass; an on/off electrothermal actuator (power supply 230Vac) controls the valve action. When there is no power supply the valve is closed. The electrothermal actuator is silent during operation. Valves have BSP 'flat face' male thread. Adapters are available separately, for conversion to compression fittings.

Technical data:

Electrical power supply	230 V/50-60 Hz
Power Consumption	3 VA
Breakaway starting current	0,3 A (230 V)
Working current	0,013 A (230 V)
Stroke	4 mm
Stem Force	90 N
(Run time)	3 min
Max. differential pressure (with valve Ø 1/2")	1,5 bar
Max. differential pressure (with valve Ø 3/4")	0,5 bar
Working room temperature	50°C
Protection rating (vertical inst.)	IP43
Protection rating (horizontal inst.)	IP40
Insulation	Double or reinforced
Connecting cable	Two core Ø 0.5 mm^2
Size	68,5x50x50





2 valves for 4-pipe system
(CW coil 3 R + LPHW 1 R)

COIL	Ref.	TPZ 10-60 X	Y	Z	Ø	TPZ 70-90 X	Y	Z	Ø
CW	1	40	411	18	3/4"F	39	523	25	3/4"F
	2	143	277	90	1/2"M	145	273	110	3/4"M
LPHW	3	113	405	10	1/2"F	103	404	25	1/2"F
	4	155	333	83	1/2"M	155	373	95	3/4"M

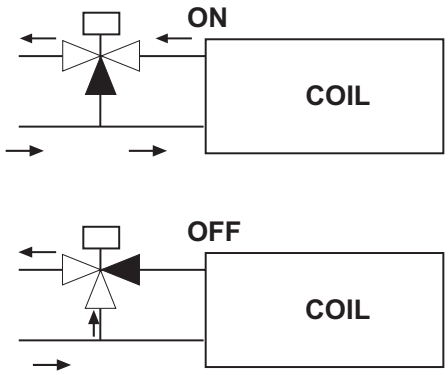
COIL	Ref.	TPZ 100-120 LEFT side X	Y	Z	Ø	TPZ 100-120 RIGHT side X	Y	Z	Ø
CW	1	34	503	4	3/4"M	75	523	9	3/4"M
	2	175	328	126	3/4"M	137	308	130	3/4"M
LPHW	3	110	508	4	1/2"M	100	508	4	1/2"M
	4	173	388	91	1/2"M	174	388	126	1/2"M

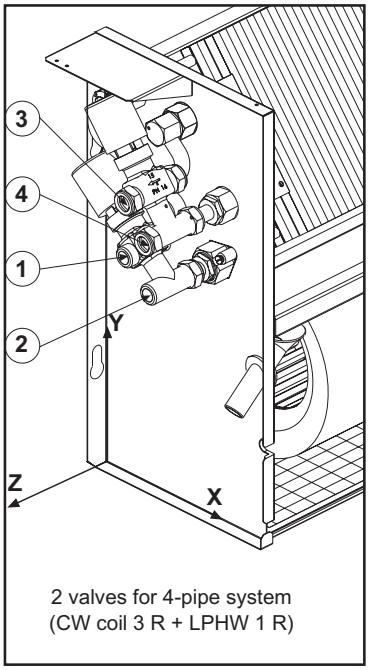
F= Female BSP fittings
M= Male BSP thread

4 PORT DIVERTING VALVES

The valve body is in brass; an on/off electrothermal actuator (power supply 230Vac) controls the valve action. When there is no power supply the valve is in bypass.
The electrothermal actuator is silent during operation.
Supplied with copper pipes with BSP female threaded fittings.
Adapters are available separately, for conversion to compression fittings.
Technical data:

Electrical power supply	230 V/50-60 Hz
Power Consumption	3 VA
Breakaway starting current	0,3 A (230 V)
Working current	0,013 A (230 V)
Stroke	4 mm
Stem Force	90 N
Opening time (run time)	3 min
Max. differential pressure (with valve Ø 1/2")	1,5 bar
Max. differential pressure (with valve Ø 3/4")	0,5 bar
Working room temperature	50°C
Protection rating (vertical inst.)	IP43
Protection rating (horizontal inst.)	IP40
Insulation	Double or reinforced
Connecting cable	Two core Ø 0.5 mm^2
Size	68,5x50x50





2 valves for 4-pipe system
(CW coil 3 R + LPHW 1 R)

COIL	Rif.	TPZ 10-60 X	Y	Z	Ø	TPZ 70-90 X	Y	Z	Ø
STANDARD	1	115	295	90	1/2" M	110	293	110	3/4" M
	2	147	270	90	1/2" M	145	273	110	3/4" M
AUXILIARY	3	130	370	92	1/2" M	120	398	115	3/4" M
	4	155	335	92	1/2" M	153	375	115	3/4" M

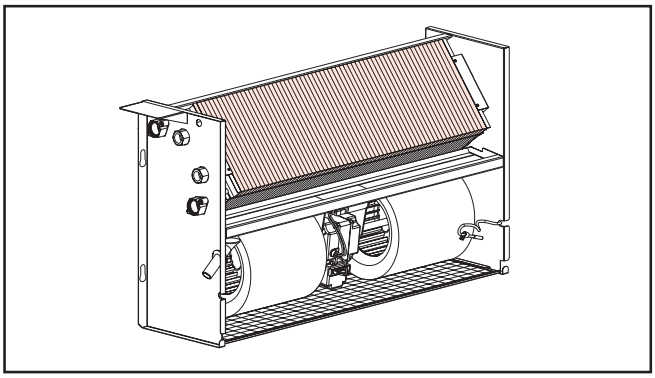
COIL	Rif.	TPZ 100-120 LEFT side X	Y	Z	Ø	TPZ 100-120 RIGHT side X	Y	Z	Ø
STANDARD	1	85	376	125	3/4"M	71	385	124	3/4"M
	2	174	328	125	3/4"M	135	307	124	3/4"M
AUXILIARY	3	140	413	106	1/2"M	139	412	106	1/2"M
	4	173	388	106	1/2"M	171	387	106	1/2"M

M= Male BSP thread

SINGLE ROW LPHW COIL

This is used in 4-pipe systems, which comprise 2 independent water circuits: one for cooling and the other for heating. The constructional characteristics are similar to those of the main coil with brass inlet/outlet headers and air valves. The fittings have a diameter of 1/2" with internal BSP thread.

		Heating capacity		Water flow		Water pressure drops
MOD.		W	kCal/h	l/h	l/s	kPa
TPZ10		1,261	1,087	109	0,030	0,3
TPZ20		1,894	1,633	163	0,405	0,7
TPZ30		2,726	2,350	235	0,065	1,7
TPZ40		2,887	2,489	249	0,069	2,0
TPZ50		3,489	3,008	301	0,084	3,4
TPZ60		4,131	3,561	356	0,176	4,2
TPZ70		5,044	4,348	435	0,121	7,5
TPZ80		6,193	5,339	534	0,148	13,9
TPZ90		7,665	6,608	661	0,184	21,7
TPZ100		8,388	7,231	739	0,205	48,4
TPZ110		10,111	8,716	981	0,273	27,0
TPZ120		11,433	9,856	1,008	0,280	34,0

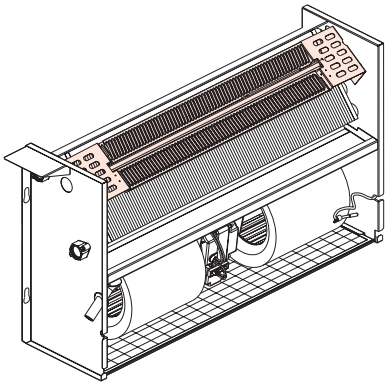


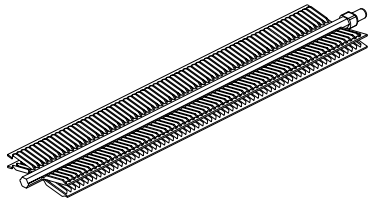
The technical data refers to the following conditions:
Maximum fan speed; indicated water flow rate; inlet water temperature at **70°C**; outlet 6**0°C**; air entering **20°C**.

ELECTRIC HEATER

Fitted in place of the LPHW coil, for applications calling for cooling with electrical heat. The heating elelment output is dependent upon unit model size, please see table below.

		Heating capacity	
MOD.		W	A
TPZ10	-	-	-
TPZ20		1.000	4,35
TPZ30		1.000	4,35
TPZ40		1.000	4,35
TPZ50		2.000	8,70
TPZ60		2.000	8,70
TPZ70		2.000	8,70
TPZ80		3.000	13,04
TPZ90		3.000	13,04
TPZ100	*	*	*
TPZ110	*	*	*
TPZ120	*	*	*





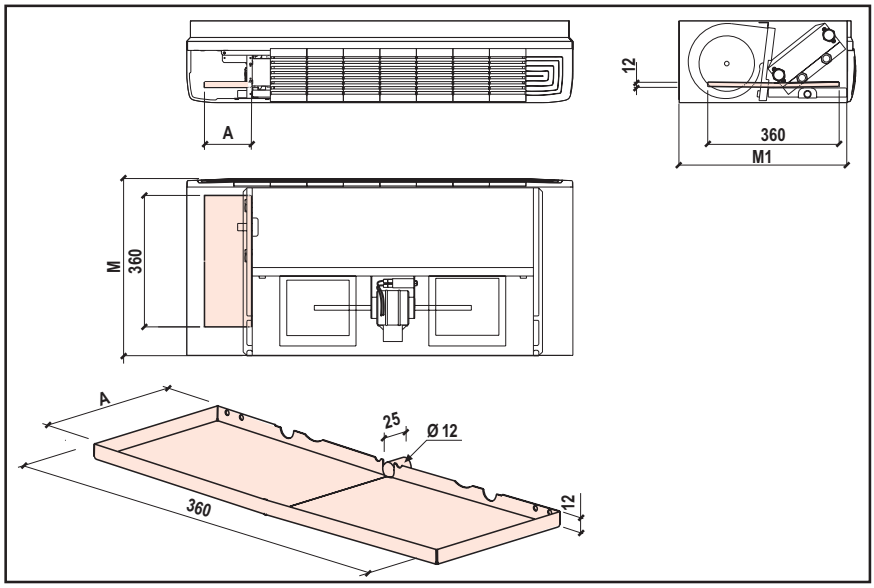
** please contact our applications department for options*

ELECTRICAL SUPPLY:
230 Vac / 1 / 50 Hz

AUXILIARY CONDENSATE TRAY – horizontal version (INSULATED)

Required with Valve options

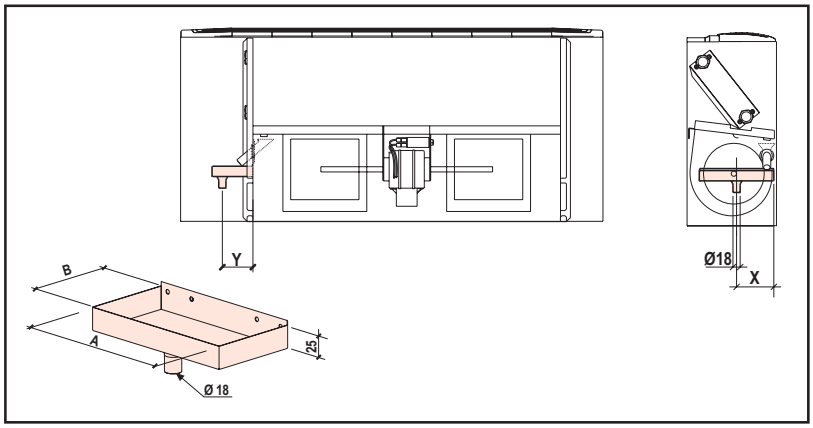
MOD.		A mm	M mm	M1 mm
TPZ10		130	480	460
TPZ20		130	480	460
TPZ30		130	480	460
TPZ40		130	480	460
TPZ50		130	480	460
TPZ60		130	480	460
TPZ70		160	585	565
TPZ80		160	585	565
TPZ90		160	585	565
TPZ100		160	605	585
TPZ110		160	605	585
TPZ120		160	605	585



AUXILIARY CONDENSATE TRAY – vertical version (INSULATED)

Required with Valve options

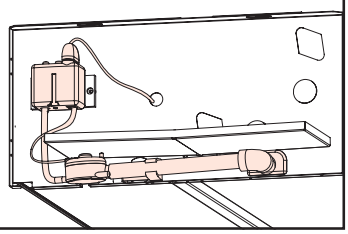
MOD.		A	B	X	Y
		mm	mm	mm	mm
TPZ10		187	102	93,5	51
TPZ20		187	102	93,5	51
TPZ30		187	102	93,5	51
TPZ40		187	102	93,5	51
TPZ50		187	102	93,5	51
TPZ60		187	102	93,5	51
TPZ70		187	102	93,5	51
TPZ80		187	102	93,5	51
TPZ90		187	102	93,5	51
TPZ100		246	130	126	65
TPZ110		246	130	126	65
TPZ120		246	130	126	65



CONDENSATE DRAIN PUMP

Float activated condensate pump with filter. Incorporates overheat protection device and high condensate level alarm contact (when our standard valves are fitted, this contact is in use to close the cooling valve upon high condensate level alarm condition)

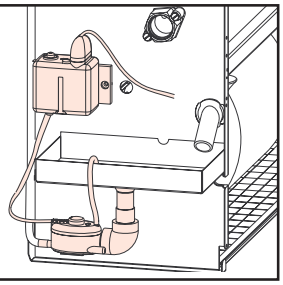
HORIZONTAL VERSION



For models TPZ 10 - TPZ 60

Mains supply	230V - 50Hz 18W
Max. flow rate	8 l/h
Max. suction head	1 m
Max. discharge head	6 m
Alarm contact	NC 8 A resistive
Thermal protection (overheat)	90°C
Sound level	<28dB(A) a 1 m
Pump dimensions	L 66 x l 44 x h 60 mm
Detection unit dimensions	L 55 x l 38 x h 32 mm

VERTICAL VERSION



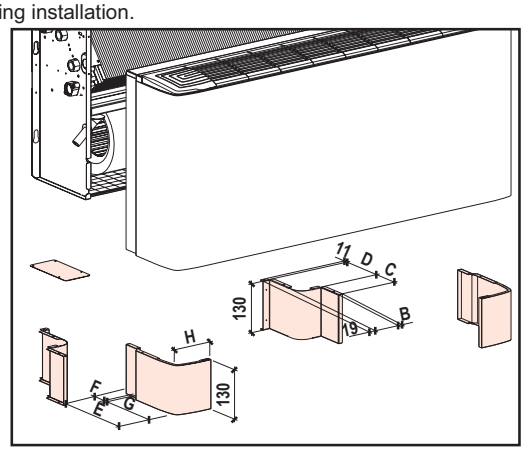
For models TPZ 70 - TPZ 120

Mains supply	230V - 50Hz 18W
Max. flow rate	20 l/h
Max. suction head	2 m
Max. discharge head	6 m
Alarm contact	NC 8 A resistive
Thermal protection (overheat)	90°C
Sound level	<34dB(A) a 1 m
Pump dimensions	L 66 x l 44 x h 60 mm
Detection unit dimensions	L 55 x l 38 x h 32 mm

PAIR OF ENAMELLED FEET

Pair of feet in pre-enamelled sheet metal designed to support the fan coil for floor-standing installation.

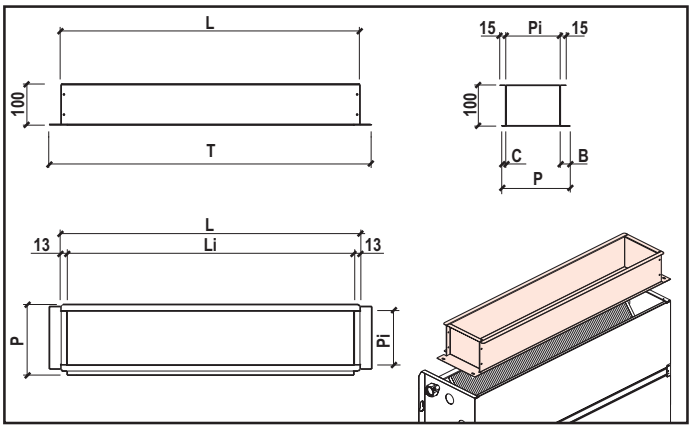
MOD.		A	B	C	D	E	F	G	H
		mm	mm	mm	mm	mm	mm	mm	mm
TPZ**10**		68	10	75	125	225	45	170	110
TPZ2		68	10	75	125	225	45	170	110
TPZ30		68	10	75	125	225	45	170	110
TPZ40		68	10	75	125	225	45	170	110
TPZ50		68	10	75	125	225	45	170	110
TPZ60		68	10	75	125	225	45	170	110
TPZ70		68	10	75	125	225	45	170	110
TPZ80		68	10	75	125	225	45	170	110
TPZ90		68	10	75	125	225	45	170	110
TPZ100		105	14	100	129	256	-	-	112
TPZ110		105	14	100	129	256	-	-	112
TPZ**120**		105	14	100	129	256	-	-	112



STRAIGHT OUTLET FITTING

In galvanised sheet metal, suitable for Horizontal or Vertical Chassis units

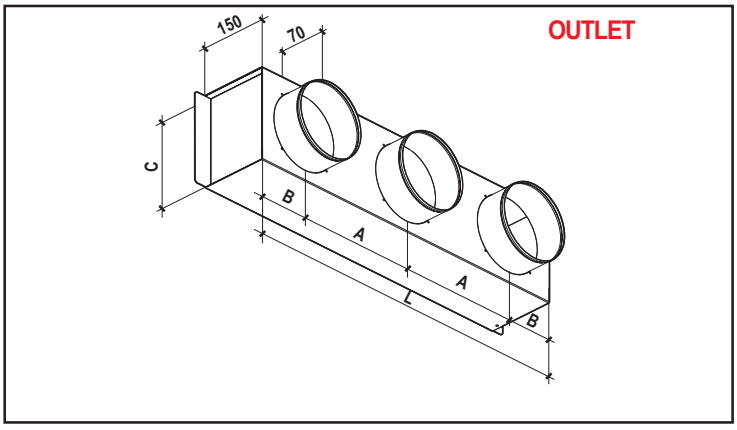
MOD.		L	Li	T	P	Pi	A	B	C
		mm	mm	mm	mm	mm	mm	mm	mm
TPZ**10**		343	317	397	170	135	13	25	10
TPZ20		543	517	597	170	135	13	25	10
TPZ30		743	717	797	170	135	13	25	10
TPZ40		743	717	797	170	135	13	25	10
TPZ50		943	917	997	170	135	13	25	10
TPZ60		943	917	997	170	135	13	25	10
TPZ70		943	917	997	170	135	13	25	10
TPZ80		1.143	1.117	1.197	170	135	13	25	10
TPZ90		1.143	1.117	1.197	170	135	13	25	10
TPZ100		1.365	1.335	*	160	149	15	10	*
TPZ110		1.665	1.635	*	160	149	15	10	*
TPZ**120**		1.665	1.635	*	160	149	15	10	*



OUTLET PLENUM

In galvanised sheet metal, suitable for Horizontal or Vertical Chassis units

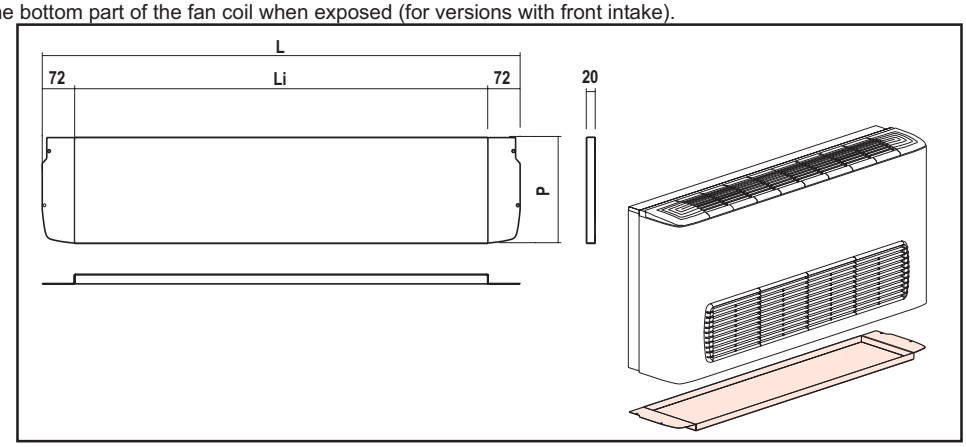
MOD.	CODE	A	B	C	L	N.xØ
		mm	mm	mm	mm	n
TPZ**10**		-	171,5	195	343	1x160
TPZ20		327	108	195	543	2x160
TPZ30		263,5	108	195	743	3x160
TPZ40		263,5	108	195	743	3x160
TPZ50		242,5	108	195	943	4x160
TPZ60		242,5	108	195	943	4x160
TPZ70		242,5	108	195	943	4x160
TPZ80		309	108	195	1.143	4x160
TPZ90		309	108	195	1.143	4x160
TPZ100		350	157,5	240	1.365	4x200
TPZ110		324,3	164	240	1.665	5x200
TPZ**120**		324,3	164	240	1.665	5x200



BOTTOM PANEL WITHOUT GRILLE

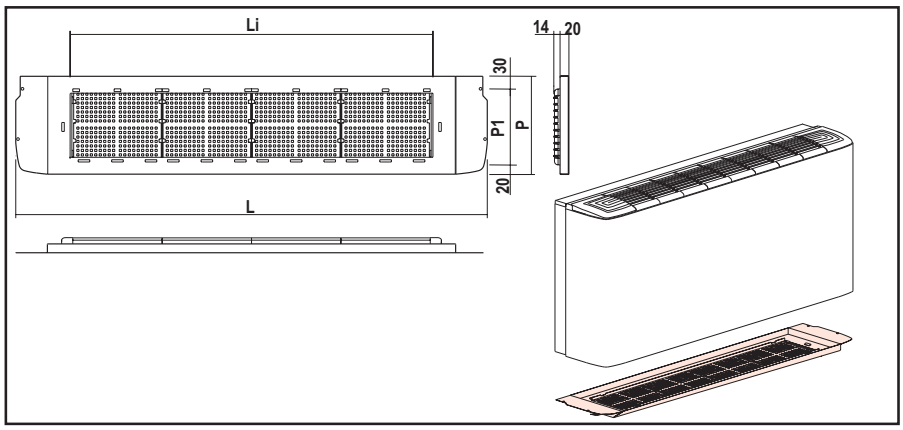
Painted sheet metal panel for closing the bottom part of the fan coil when exposed (for versions with front intake).

MOD.	CODE	L	Li	P
		mm	mm	mm
TPZ**10**		655	511	220
TPZ**20**		855	711	220
TPZ**30**		1.055	911	220
TPZ**40**		1.055	911	220
TPZ**50**		1.255	1.111	220
TPZ**60**		1.255	1.111	220
TPZ**70**		1.255	1.111	220
TPZ**80**		1.455	1.311	220
TPZ**90**		1.455	1.311	220
TPZ**100**		1.665	1.521	240
TPZ**110**		1.965	1.821	240
TPZ**120**		1.965	1.821	240

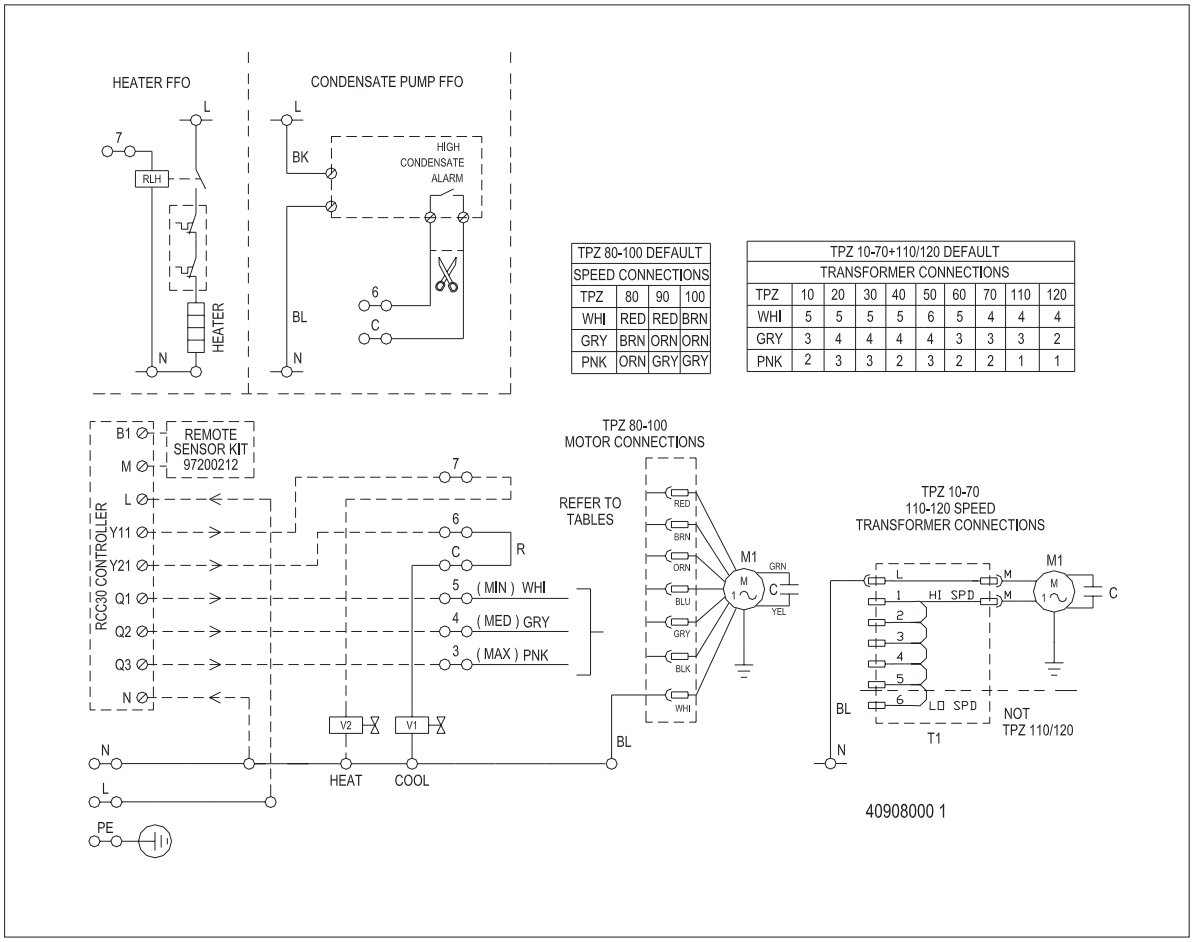


BOTTOM PANEL WITH GRILLE AND FILTER

MOD.	CODE	L	Li	P	Pi
		mm	mm	mm	mm
TPZ**10**		655	412	220	170
TPZ**20**		855	612	220	170
TPZ**30**		1.055	812	220	170
TPZ**40**		1.055	812	220	170
TPZ**50**		1.255	1.012	220	170
TPZ**60**		1.255	1.012	220	170
TPZ**70**		1.255	1.012	220	170
TPZ**80**		1.455	1.212	220	170
TPZ**90**		1.455	1.212	220	170
TPZ**100**		1.665	1.412	240	190
TPZ**110**		1.965	1.612	240	190
TPZ**120**		1.965	1.612	240	190



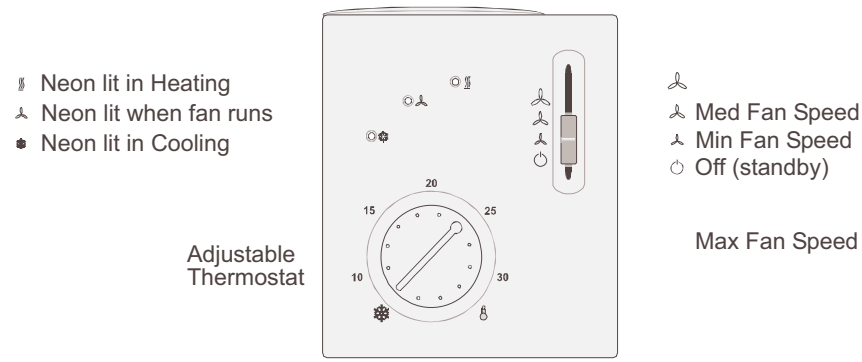
WIRING DIAGRAM TPZ10-120



TPZ 80-100 DEFAULT SPEED CONNECTIONS			
TPZ	80	90	100
WHI	RED	RED	BRN
GRY	BRN	ORN	ORN
PNK	ORN	GRY	GRY

TPZ 10-70+110/120 DEFAULT TRANSFORMER CONNECTIONS									
TPZ	10	20	30	40	50	60	70	110	120
WHI	5	5	5	5	6	5	4	4	4
GRY	3	4	4	4	4	3	3	3	2
PNK	2	3	3	2	3	2	2	1	1

OPERATING INSTRUCTIONS RCC30 REMOTE CONTROLLER



ON / OFF AND FAN SPEEDS
The slider controls the fan speeds as shown above: in its lowest position the unit is in standby ie. the air conditioner has power supplied to it but does not operate.

TEMPERATURE CONTROL

The desired room temperature is set using the rotary switch.

Normally the range is restricted to 17°C - 30°C, although the installer may have set the minimum higher or the maximum lower (eg 20°C - 25°C) to conserve energy.

After resetting the temperature, there may be a short delay (2-3 minutes) before the system operates in its new mode. The air conditioner will then attempt to satisfy the set temperature.

Heating is possible only if an LPHW coil or electric heaters are fitted, or if the unit is supplied from a reverse cycle chiller (a pipe changeover thermostat is also required).

For specified low temperature systems : the range is restricted from between 10°C and 16°C.

Adjustment of the minimum and maximum limits can be made by carefully prising off the rotary dial and re-setting the stops as required.