

SIMPLY THE BEST  
SOLUTIONS

HVAC  
SYSTEMS

# Fancoils



CE TSEK

**TEKNOGEN®**

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# Teknogen

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As one of the leading manufacturers of Heating, Ventilation and Air Conditioning market, **TEKNOGEN HVAC** stands for innovation, top quality, leading technology and reliable service. That's why our motto is **"SIMPLY THE BEST SOLUTIONS"**.

One of the core issues for production is quality and high-end components for reaching top quality units. All internal processes are being regulated by **ISO9001** quality management system.

We combine the demands from the market with the new trends for energy savings and environmental needs. This combination leads us to create new designs with innovated ideas. This approach makes us have loyal customers worldwide.

**TEKNOGEN** has a large range for Air handling Units, Fancoils, Heat Recovery Ventilators, Swimming Pool Air Handling Units, Chillers, Rooftop Units, Floor Convectors, Unit Heaters. Our headquarters located in Istanbul and the factory is in Izmir.

If you are looking for high quality production and a solution partner, we Teknogen ready.





TEKNOGEN fancoil units are produced in 5 different models; Water cassette (4 way), Floor type (with or without cassette), Ceiling concealed type, high pressure type, wall type.

Intended use of TEKNOGEN Fancoil is to provide quality air conditioning with low energy consumption which based on comfort conditions.

Due to common use, Fancoils are placed near the living spaces. Therefore fancoil sound levels are quite important so the sound insulation is. Regarding to this, TEKNOGEN Fancoils are specially designed just to get to these high quality comfort standards.

### **TEKNOGEN Fancoils are distinguished by the features below;**

- Quick delivery from stock,
- Low energy consumption
- Fast and easy installation
- Wide range of high quality accessories
- Wide service
- High quality components
- wide range of units and models
- 2 and 4 pipe alternatives for each model
- Quality certificates

Cassette Type (4 way blowing ) Fancoil	Floor Type (cassette / concealed) Fancoil	Ceiling Concealed Type	High pressure Type	Wall Type
				

# Casette Type [4WAY] Fancoil








## TFP - KM4

These units are used in false ceiling applications. The air, sucked by fans, goes through the heating/cooling coils and pass to indoor. The air could be directed by 4 blowers.

- TFP - KM4 is available in 2 and 4 pipe models.
- Multiple unit controlling from single point.
- In build drain pump and remote controller comes with the unit.

### Functions and Features :

				
Cooling - Heating	Indoor usage	Horizontal Usage	Water Cooling	Multi - Control

### Available Configurations:

TFP - KM4	34	V
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**TFP - KM4:** 4 way blowing Casette type Fancoil

**34:** Air flow rate (340 m<sup>3</sup>/h)

**V:** 2 pipe system

**P:** 4 pipe system



# Casette Type [4 WAY] Fancoil

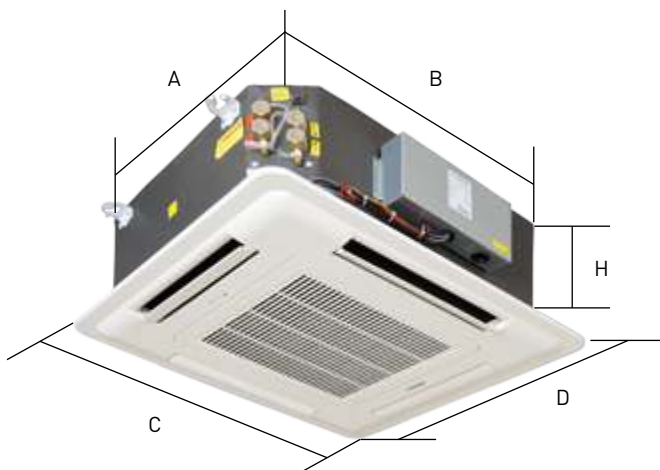
## Technical Datas

			TFP - KM4 - V (2 pipes)									
			34	51	68	80	85	102	136	170	204	238
Total cooling capacity	High	kW	2,12	3,09	3,94	4,32	5	5,87	7,32	9,59	11,46	13,04
	Medium		1,7	2,6	3,2	3,5	4,1	4,9	6,2	8	9,6	11
	Low		1,3	1,9	2,4	2,6	3,1	3,6	4,7	6,1	7,2	8,3
Heating capacity	High	kW	5,39	7,70	9,94	11,22	12,26	15,39	19,87	24,75	27,89	32,26
	Medium		4,32	6,08	8,00	8,96	9,76	12,16	15,84	19,68	22,40	25,92
	Low		3,04	4,32	5,76	6,56	7,04	8,80	11,36	14,24	16,16	18,72
Air Flow Rate	High	m³/h	340	510	680	800	850	1020	1360	1700	2040	2380
	Medium		255	380	510	600	635	765	1020	1275	1530	1785
	Low		170	255	340	400	425	510	680	850	1020	1190
Fan power	W	26/21/18	28/23/19	45/31/19	54/40/26	56/39/31	80/62/51	109/67/48	114/82/43	160/103/55	212/156/100	
Sound Level	dB (A)	35/32/29	39/36/33	41/38/35	44/40/36	40/35/31	45/40/36	46/41/37	44/37/34	48/42/36	52/46/39	
water inlet - outlet diameters	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Weight	kg	24	24	26	27	33	34	34	40	41	42	

			TFP - KM4 - P (4 pipes)									
			34	51	68	80	85	102	136	170	204	238
Total cooling capacity	High	kW	1,76	2,53	3,19	3,47	4,25	5,19	6,01	8,07	9,05	9,81
	Medium		1,41	2,13	2,59	2,81	3,49	4,28	5,07	6,72	7,55	8,25
	Low		1,08	1,56	1,94	2,11	2,64	3,19	3,82	5,12	5,7	6,21
Heating capacity	High	kW	3,34	4,35	5,28	5,82	6,86	7,66	8,85	12,24	13,52	14,90
	Medium		3,15	3,60	4,35	4,86	5,63	6,38	7,66	10,18	11,33	12,45
	Low		2,72	3,15	3,34	3,71	4,38	5,47	5,90	7,73	8,72	9,70
Air Flow Rate	High	m³/h	340	510	680	800	850	1020	1360	1700	2040	2380
	Medium		255	380	510	600	635	765	1020	1275	1530	1785
	Low		170	255	340	400	425	510	680	850	1020	1190
Fan power	W	26/21/18	28/23/19	45/31/19	54/40/26	56/39/31	80/62/51	109/67/48	114/82/43	160/103/55	212/156/100	
Sound Level	dB (A)	35/32/29	39/36/33	41/38/35	44/40/36	40/35/31	45/40/36	46/41/37	44/37/34	48/42/36	52/46/39	
water inlet - outlet diameters	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Weight	kg	25	25	27	28	34	35	35	41	42	43	

- (1) Outdoor Temperature 27°C, %50 Nominal Humidity, Water inlet Temperature 7°C, Water outlet Temperature 12°C  
 (2) Outdoor Temperature 20°C, %50 Nominal Humidity, Water inlet temperature 160°C, Water outlet Temperature 50°C  
 (3) Sound level is measured outside at 1 meter away when the unit runs in high speed.  
 (4) Mains power must be 230 V / 1 Ph / 50 Hz.

## Dimensions



Model	34-51-68-80	85-102-136	170-204-238
A	570	730	930
B	570	730	930
C	760	850	1050
D	760	850	1050
H	290		



# Floor Type (WITH OR WITHOUT CASSETTE) Fancoil









## TFX - VA / CA

Floor Type Fancoil is available in 2 models.

- With Cassette (TFX - VA)
- Without Cassette (TFX - CA)

## Functions and Features

					
Cooling - Heating	Indoor Usage	Horizontal Usage	Vertical Usage	Water Cooling	Multi-control

## Available Configurations :

TFX - VA / CA	130
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**TFX - VA:** Cassette Floor type

**TFX - CA:** Concealed floor type

**130:** Model with 2 pipes

**131:** Model with 4 pipes

**SX:** Left Connection

**DX:** Right Connection



# Floor Type (WITH OR WITHOUT CASSETTE) Fancoil

## Technical Datas

			TFX - VA / CA (2 Pipes)											
			130	230	330	430	530	630	730	830	930	1030	1130	1230
Total cooling Capacity	High	kW	1,58	2,11	2,66	3,18	3,95	4,47	5,81	6,76	7,93	9,50	10,11	11,27
	Medium		1,44	1,92	2,43	2,90	3,64	4,12	5,36	6,23	7,39	8,86	9,43	10,52
	Low		1,19	1,58	2,00	2,38	3,04	3,45	4,48	5,21	6,37	7,63	8,12	9,05
Heating Capacity	High	kW	4,57	5,77	7,35	8,19	10,64	12,28	16,21	18,16	22,69	25,43	28,15	32,27
	Medium		4,12	5,20	6,61	7,37	9,70	11,20	14,79	16,57	20,97	23,50	26,01	29,82
	Low		3,31	4,17	5,31	5,92	7,93	9,15	12,08	13,54	17,72	19,86	21,98	25,20
Air Flow Rate	High	m <sup>3</sup> /h	350	360	435	447	647	665	975	1003	1431	1472	1908	1962
	Medium		291	299	361	371	550	565	829	853	1245	1281	1660	1707
	Low		200	205	248	255	388	399	585	602	930	957	1240	1275
Fan Motor Power	W	58/43/35	58/43/35	85/65/51	85/65/51	75/56/44	75/56/45	145/108/87	145/108/87	175/131/105	175/131/105	285/215/171	285/215/171	
Sound Level	dB (A)	38/31/24	38/31/25	44/38/30	45/38/31	37/33/26	37/34/27	43/41/34	45/41/35	48/46/39	49/46/40	51/48/45	51/48/46	
Water inlet - outlet diameters	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
Weight	kg	13,5	13,5	16,4	16,4	22,5	23,5	26	27,5	30	31,5	34	37,5	

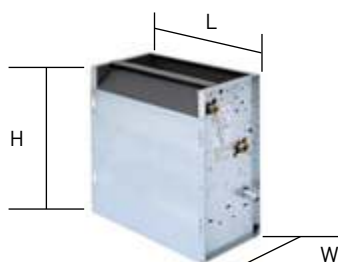
			TFX - VA / CA (4 Pipes)											
			130	230	330	430	530	630	730	830	930	1030	1130	1230
Total cooling Capacity	High	kW	1,69	2,24	2,86	3,37	4,24	4,75	6,26	7,14	8,53	10	10,88	11,88
	Medium		1,54	2,04	2,61	3,07	3,91	4,38	5,76	6,58	7,95	9,32	10,14	11,07
	Low		1,26	1,68	2,14	2,52	3,26	3,65	4,81	5,49	6,84	8,02	8,72	9,53
Heating Capacity	High	kW	2,39	2,43	4,01	4,07	5,71	5,79	8,49	8,56	11,25	11,29	13,68	13,73
	Medium		2,15	2,18	3,61	3,66	5,2	5,28	7,75	7,81	10,4	10,44	12,64	12,69
	Low		1,73	1,76	2,9	2,94	4,25	4,31	6,33	6,38	8,79	8,82	10,68	10,73
Air Flow Rate	High	m <sup>3</sup> /h	350	360	435	447	647	665	975	1003	1431	1472	1908	1962
	Medium		291	299	361	371	550	565	829	853	1245	1281	1660	1707
	Low		200	205	248	255	388	399	585	602	930	957	1240	1275
Fan Motor Power	W	58/43/35	58/43/35	85/65/51	85/65/51	75/56/44	75/56/45	145/108/87	145/108/87	175/131/105	175/131/105	285/215/171	285/215/171	
Sound Level	dB (A)	38/31/24	38/31/25	44/38/30	45/38/31	37/33/26	37/34/27	43/41/34	45/41/35	48/46/39	49/46/40	51/48/45	51/48/46	
Water inlet - outlet diameters	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
Weight	kg	14,4	14,9	17,4	18,2	23,6	24,6	27,2	28,7	31,3	32,8	35,4	38,9	

- (1) Outdoor Temperature 27°C, %50 Nominal Humidity, Water inlet Temperature 7°C, Water outlet Temperature 12°C  
 (2) Outdoor Temperature 20°C, %50 Nominal Humidity, Water inlet temperature 160°C, Water outlet Temperature 50°C  
 (3) Sound level is measured outside at 1 meter away when the unit runs in high speed.  
 (4) Mains power must be 230 V / 1 Ph / 50 Hz.

## Dimensions



Model	130	230	330	430	530	630	730	830	930	1030	1130	1230
L	670		870		1070		1270		1470		1670	
W	220											
H	520											



Model	130	230	330	430	530	630	730	830	930	1030	1130	1230
L	450		650		850		1050		1250		1450	
W	215											
H	450											

# Ceiling Concealed Type Fancoil

## TFP - WA






Ceiling concealed type fancoil is applied in where low static pressure air distribution is required. Long drain pan application prevents unfavourable conditions during condensation process.



### Technical Features

- 1) Hydrophilic coated exchanger surface
- 2) Under unit plastic based, complete tray application
- 3) Easy mounting with unique designed coil pipe compression system
- 4) Easy detachable and washable filter
- 5) Flange application for duct connection
- 6) The Lowest sound levels with unique design of fan

### Functions and Features :

				
Cooling - Heating	Indoor Usage	Horizontal Usage	Water Cooling	Multi - Control

### Available Configurations:

TFP - WA	V / P	34	L / R
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**TFP - WA:** Ceiling Concealed Type

**V:** 2 pipe system

**P:** 4 pipe system

**34:** Air Flow Rate (340m<sup>3</sup>/h)

**L:** Left Connection

**R:** Right Connection





# Ceiling Concealed Type Fancoil

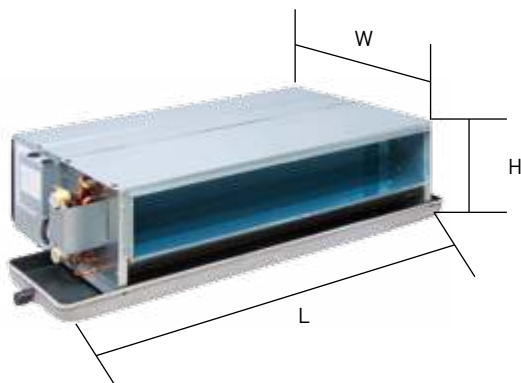
## Technical Datas

			TFP - WA - V (2 Pipes)						
			34	51	68	85	102	136	170
Total cooling Capacity	High	kW	1,95	2,83	3,87	4,55	5,50	7,58	8,69
	Medium		1,70	2,50	3,40	4,00	4,90	6,70	7,70
	Low		1,40	2,00	2,80	3,30	4,00	5,50	6,30
Heating Capacity	High	kW	5,57	7,52	9,47	12,24	14,56	20,16	23,84
	Medium		4,64	6,24	8,00	10,24	12,16	16,96	20,00
	Low		3,52	4,80	6,08	7,84	9,28	12,96	15,20
Air Flow Rate	High	m <sup>3</sup> /h	360	540	720	880	1030	1500	1780
	Medium		285	430	570	660	820	1150	1380
	Low		210	310	420	510	590	870	1000
External Static Pressure	Pa	50	50	50	50	50	50	50	
Fan Motor Power	W	49	63	83	98	116	170	205	
Sound level	dB (A)	39	41	42	44,5	46	50	50	
Water inlet - outlet diameters	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Weight	kg	14	17	19	21	23	26	31	

			TFP - WA - P (4 Pipes)						
			34	51	68	85	102	136	170
Total cooling Capacity	High	kW	2,15	3,26	4,00	4,85	5,80	7,32	9,48
	Medium		1,90	2,80	3,40	4,30	4,80	6,40	8,00
	Low		1,50	2,20	2,70	3,50	3,90	5,20	6,50
Heating Capacity	High	kW	3,01	4,40	5,71	6,80	8,66	10,32	13,79
	Medium		2,56	3,68	4,80	5,76	7,20	8,64	11,52
	Low		1,92	2,88	3,68	4,32	5,60	6,56	8,80
Air Flow Rate	High	m <sup>3</sup> /h	340	510	680	850	1020	1360	1700
	Medium		270	400	540	670	810	1080	1360
	Low		200	300	400	510	610	810	1000
External Static Pressure	Pa	50	50	50	50	50	50	50	
Fan Motor Power	W	46/42/35	60/54/48	80/67/59	96/84/74	110/103/90	165/146/126	200/168/146	
Sound level	dB (A)	39/37/35	41/38/36	42/41/39	44/43/41	46/44/43	47/45/44	49/47/46	
Water inlet - outlet diameters	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Weight	kg	19	22	25	27	30	36	42	

- (1) Outdoor Temperature 27°C, %50 Nominal Humidity, Water inlet Temperature 7°C, Water outlet Temperature 12°C  
 (2) Outdoor Temperature 20°C, %50 Nominal Humidity, Water inlet temperature 160°C, Water outlet Temperature 50°C  
 (3) Sound level is measured outside at 1 meter away when the unit runs in high speed.  
 (4) Mains power must be 230 V / 1 Ph / 50 Hz.

## Dimensions



Model	34	51	68	85	102	136	170
L	635	755	865	945	1055	1325	1515
W	497						
H	250						

# High Pressure Type

## TFP - WA - H








Concealed ceiling type high pressure fancoil is applied in where high static pressure air distribution is required. Special isolation material in fan section provides reaching quite low sound levels. This unit is available in 2 models ( 2 pipe and 4 pipe system)

### Technical Features

- 1) Proper water removal with insulated drainage Tray
- 2) Easy and secured mounting with hangers
- 3) Flange application for duct connection
- 4) Easy detachable and washable filter
- 5) Long term use with electrostatic painted galvanized sheet
- 6) Lowest sound pressure rates with help of special insulation

### Functions and Features:

				
Cooling - Heating	Indoor Usage	Horizontal Usage	Water Cooling	Multi- Control

### Available Configurations:

TFP - WA	V / P	238 H	L / R
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**TFP - WA:** Ceiling concealed type

**V:** 2 pipe system

**P:** 4 pipe system

**238:** Air Flow Rate (2380 m<sup>3</sup>/h)

**H:** High Pressure

**L:** Left Connection

**R:** Right Connection



Mechanics Thermostat



Digital Thermostat

# High Pressure Type

## Technical Datas

			TFP - WA - V (2 Pipes)			
			238H	270H	340H	460H
Total cooling Capacity	High	kW	12,8	14,6	17,7	22,6
	Medium		10,4	11,8	14,3	18,3
	Low		7,7	8,8	10,6	13,6
Heating Capacity	High	kW	30,56	35,36	42,72	55,2
	Medium		24,16	28	33,76	43,68
	Low		16,96	19,52	23,68	30,56
Air Flow Rate	High	m <sup>3</sup> /h	2380	2720	3400	4590
	Medium		1785	2040	2550	3440
	Low		1190	1360	1700	2295
External Static Pressure	Pa	117	112	127	120	
Fan Motor Power	W	333/289/255	385/334/291	573/493/419	860/731/623	
Sound level	dB (A)	52/50/45	54/52/48	56/53/50	59/55/52	
Water inlet - outlet diameters	inch	3/4	3/4	3/4	3/4	
Weight	kg	70	90	98	112	

			TFP - WA - P (4 Pipes)			
			238H	270H	340H	460H
Total cooling Capacity	High	kW	12,8	14,6	17,7	22,6
	Medium		10,4	11,8	14,3	18,3
	Low		7,7	8,8	10,6	13,6
Heating Capacity	High	kW	18,56	21,12	26,4	35,36
	Medium		14,4	16,32	20,48	27,36
	Low		9,92	11,36	14,24	19,04
Air Flow Rate	High	m <sup>3</sup> /h	2380	2720	3400	4590
	Medium		1785	2040	2550	3440
	Low		1190	1360	1700	2295
External Static Pressure	Pa	105	100	115	100	
Fan Motor Power	W	333/289/255	385/334/291	573/493/419	860/731/623	
Sound level	dB (A)	52/50/45	54/52/48	56/53/50	59/55/52	
Water inlet - outlet diameters	inch	3/4	3/4	3/4	3/4	
Weight	kg	73	93	102	117	

- (1) Outdoor Temperature 27°C, %50 Nominal Humidity, Water inlet Temperature 7°C, Water outlet Temperature 12°C  
 (2) Outdoor Temperature 20°C, %50 Nominal Humidity, Water inlet temperature 60°C, Water outlet Temperature 50°C  
 (3) Sound level is measured outside at 1 meter away when the unit runs in high speed.  
 (4) Mains power must be 230 V / 1 Ph / 50 Hz.

## Dimensions



Model	238H	270H	340H	460H
L	1200	1400		
W	620		670	
H		350	400	450

# Wall Type




## TFP - FAN



Effective , silent running and stylish looking wall type fancoils will meet your expectations.

Microprocessors in unit will perform all required environmental controls.

### Functions and Features:

				
Cooling - Heating	Indoor usage	Yatay Kullanım	Horizontal Usage	Multi - Control

### Available Configurations

TFP	FAN	70
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**TFP - FAN:** Wall Type Fancoil

**70:** Model

**90:** Model

**180:** Model



## Technical Datas

			TFP - FAN - (2 Pipes)		
			70	90	180
Total cooling Capacity	High	kW	2,38	2,67	4,6
	Medium		2,15	2,43	4,19
	Low		1,94	2,2	3,8
Heating Capacity	High	kW	6,7	8,31	11,93
	Medium		5,86	7,16	10,25
	Low		5,07	4,85	6,97
Air Flow Rate	High	m <sup>3</sup> /h	410	485	860
	Medium		330	390	750
	Low		270	320	590
Fan Motor Power	W	45/38/33	51/43/36	84/71/59	
Sound Level	dB (A)	39/36/29	41/37/32	48/45/40	
Water inlet - outlet diameters	inch	1,2	1,2	1,2	
Weight	kg	9,3	9,3	14,3	

- (1) Outdoor Temperature 27°C, %50 Nominal Humidity, Water inlet Temperature 7°C, Water outlet Temperature 12°C  
 (2) Outdoor Temperature 20°C, %50 Nominal Humidity, Water inlet temperature 60°C, Water outlet Temperature 50°C  
 (3) Sound level is measured outside at 1 meter away when the unit runs in high speed.  
 (4) Mains power must be 230 V / 1 Ph / 50 Hz.

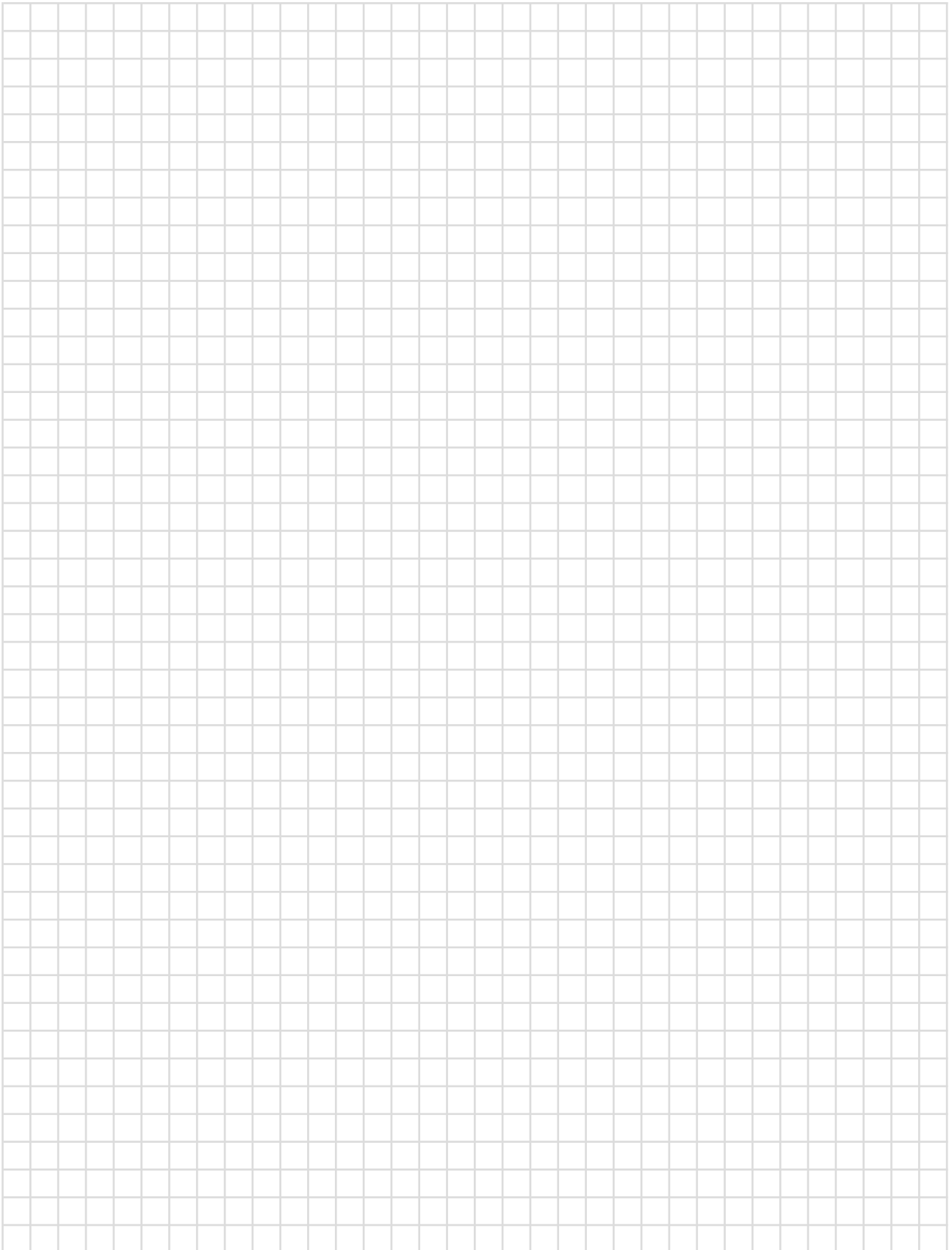
## Dimensions



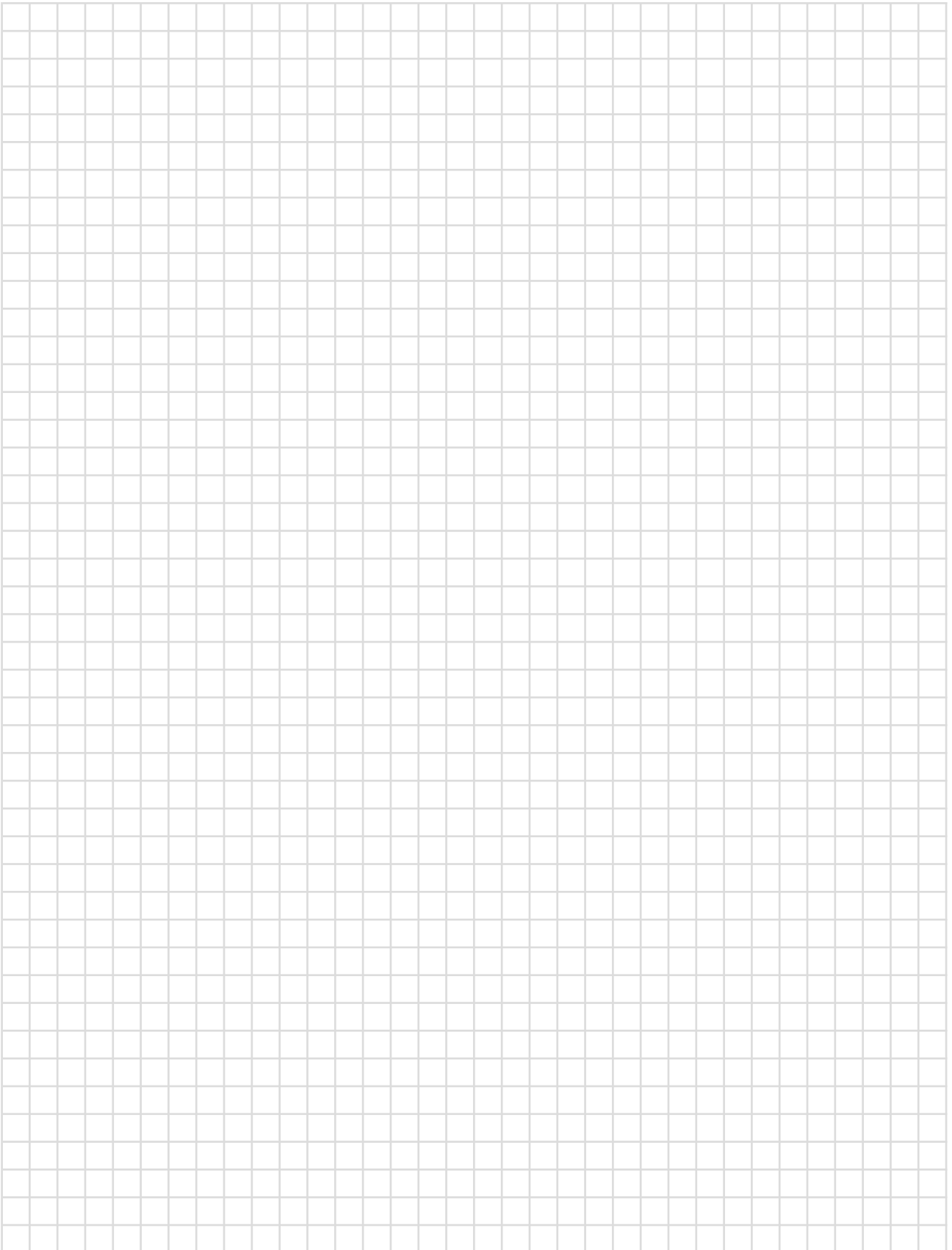
Model	70	90	180
L	795		1250
W	283		320
H	185		195

# Notes

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SIMPLY THE BEST  
SOLUTIONS

HVAC  
SYSTEMS

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RESERVES THE RIGHT TO MAKE ALTERATIONS  
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## **TEKNOGEN®**

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