



# 39TD Air Handling Unit

Air Flow: 2000-50000m<sup>3</sup>/h





In 1998, Time magazine named Dr. Carrier one of its 20 most influential builders and titans of the 20th century.

Carrier is a leading global provider of innovative HVAC, refrigeration, fire, security and building automation technologies. Supported by the iconic Carrier name, the company's portfolio includes industry-leading brands such as Carrier, Kidde, Edwards, LenelS2 and Automated Logic. Carrier's businesses enable modern life, delivering efficiency, safety, security, comfort, productivity and sustainability across a wide

range of residential, commercial and industrial applications.



# Identification & Dimension

39TD 020 E H1 L R 4 1 12 B W 0 A

Panel thickness  
 A- 25mm PU insulation  
 B- 50mm PU insulation

WET FILM HUMIDIFIER (wet film humidifier and heating coil is alternative)  
 0-NONE  
 1-50MM WET FILM HUMIDIFIER  
 2-100MM WET FILM HUMIDIFIER

COLOR OF EXTERIOR PANEL  
 W-WHITE (STD)

FAN DIRECTION: T-FT R-RU F-UF B-FB  
 FAN DIRECTION(UF is standard configuration for V1)

EXTERNAL STATIC PRESSURE  
 12-120Pa 17-170Pa 22-220Pa  
 27-270Pa 32-320Pa 37-370Pa  
 42-420Pa 47-470Pa 52-520Pa  
 57-570Pa 62-620Pa 67-670Pa

HEATING COIL (heating coil and wet humidifier is alternative)  
 1-1ROW  
 2-2ROWS  
 N-NONE

COOLING COIL  
 4-4ROW  
 6-6ROWS

OPERATION CONDITION  
 R-RETURN AIR CONDITION  
 F-FRESH AIR CONDITION

UNIT ORIENTATION (Facing discharge)  
 L-LEFT  
 R-RIGHT

UNIT TYPE  
 H1-HORIZONTAL STD1  
 H2-HORIZONTAL STD2  
 H3-HORIZONTAL STD3  
 V1-VERTICAL STD(DIGIT 6"C" FOR CEILING UNIT)

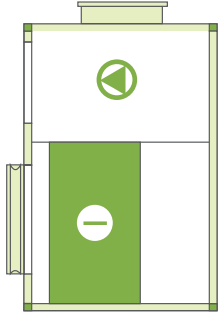
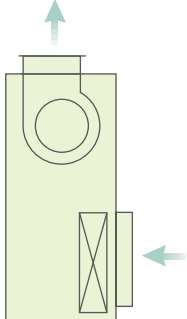
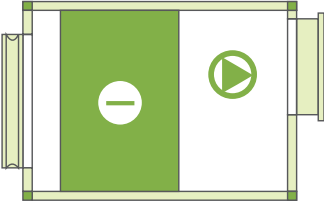
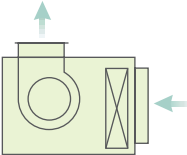
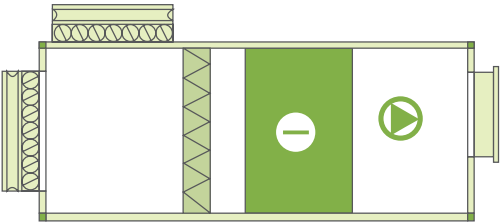
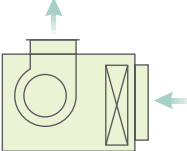
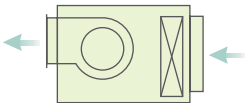
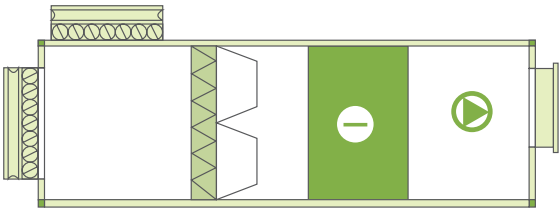

DESIGN SEQUENCE

VOLUME

020-2000m³/h	030-3000m³/h	040-4000m³/h	050-5000m³/h
060-6000m³/h	070-7000m³/h	080-8000m³/h	090-9000m³/h
105-10500m³/h	120-12000m³/h	135-13500m³/h	150-15000m³/h
180-18000m³/h	210-21000m³/h	240-24000m³/h	270-27000m³/h
300-30000m³/h	330-33000m³/h	350-35000m³/h	400-40000m³/h
450-45000m³/h	500-50000m³/h		

PRODUCT SERIES

# Unit Configuration

Diagram	Configuration	Fan Direction
	<p>V1: Vertical standard unit</p>	<p>UF</p> 
	<p>H1: Horizontal standard unit</p>	<p>UF</p> 
	<p>H2: Horizontal standard unit</p>	<p>UR</p>  <p>FT</p> 
	<p>H3: Horizontal standard unit</p>	<p>FB</p> 

NOTE:

1. Flange is standard, GI damper is option.
2. Hot water coil or wet-firm humidifier can be option.

# Unit performance

## Standard Condition

Model	Air Volume	4 Rows						6 Rows					
		Cooling Capacity	Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size	Drain Water Pipe Size	Cooling Capacity	Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size	Drain Water Pipe Size
39TD	m <sup>3</sup> /h	kW	kW	l/s	kPa	DN	DN	kW	kW	l/s	kPa	DN	DN
020E	2000	10.2	21.2	0.5	17.4	32	25	14.0	25.8	0.7	44.8	32	25
030E	3000	16.0	32.6	0.8	28.7	32	25	21.6	39.0	1.0	71.6	32	25
040E	4000	21.7	43.4	1.0	45.3	32	25	27.9	51.1	1.3	34.8	32	25
050E	5000	25.8	52.2	1.2	38.9	32	25	32.1	59.7	1.5	30.3	32	25
060E	6000	32.3	63.7	1.5	59.5	40	25	39.3	73.0	1.9	40.3	40	25
070E	7000	38.0	74.7	1.8	72.1	50	25	45.8	86.0	2.2	50.0	50	25
080E	8000	44.8	86.4	2.1	38.5	50	25	53.8	99.7	2.6	74.7	50	25
090E	9000	48.1	94.5	2.3	35.8	50	25	61.2	112.7	2.9	75.7	50	25
105E	10500	55.2	106.5	2.6	50.6	50	25	70.5	129.0	3.4	48.8	50	25
120E	12000	64.1	126.0	3.1	73.4	50	25	84.8	153.9	4.0	75.6	50	25
135E	13500	73.8	146.6	3.5	48.2	65	32	97.7	175.6	4.7	39.0	65	32
150E	15000	82.7	158.4	3.9	49.1	65	32	108.5	194.2	5.2	38.1	65	32
180E	18000	99.2	194.3	4.7	66.4	65	32	130.2	236.2	6.2	51.2	65	32
210E	21000	117.6	228.0	5.6	30.7	65	32	148.3	270.6	7.1	22.8	65	32
240E	24000	137.5	263.4	6.6	44.6	65	32	172.6	309.2	8.2	32.8	65	32
270E	27000	153.5	296.3	7.3	42.0	65	32	194.2	347.9	9.3	34.4	65	32
300E	30000	170.6	329.3	8.1	43.2	65	32	214.5	386.5	10.2	35.6	65	32
330E	33000	190.5	362.2	9.1	56.5	80	32	238.8	427.1	11.4	46.1	80	32
350E	35000	205.0	386.2	9.8	67.1	80	32	253.2	455.1	12.1	53.1	80	32
400E	40000	213.6	415.2	10.2	55.5	80	32	282.5	510.6	13.5	51.8	80	32
450E	45000	228.7	445.6	10.9	57.1	80	32	319.8	574.4	15.2	60.4	80	32
500E	50000	254.1	495.1	12.1	63.3	80	32	357.5	641.2	17.0	69.5	80	32

**NOTE:**

Cooling: Ent. Air temp. DB27°C, WB 19.5°C, water in/out temp. 7°C/12°C. Heating: Ent. Air temp. DB15°C, hot water in temp. 60°C, water flow rate is same as cooling conditions

# Unit Performance

## Fresh Air Condition

Model	Air Volume	4 Rows						6 Rows					
		Cooling Capacity	Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size	Drain Water Pipe Size	Cooling Capacity	Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size	Drain Water Pipe Size
39TD	m <sup>3</sup> /h	kW	kW	l/s	kPa	DN	DN	kW	kW	l/s	kPa	DN	DN
020E	2000	24.2	26.4	1.2	31.8	40	25	32.3	32.2	1.5	66.5	40	25
030E	3000	37.9	41.3	1.8	44.0	40	25	45.3	45.7	2.2	89.6	40	25
040E	4000	51.2	55.1	2.4	62.5	50	25	60.3	61.8	2.9	55.8	50	25
050E	5000	64.0	68.9	3.1	64.3	50	25	75.4	77.3	3.6	53.5	50	25
060E	6000	67.4	75.9	3.2	78.3	50	25	92.6	93.6	4.4	74.9	50	25
070E	7000	74.9	84.6	3.6	40.5	65	25	109.3	109.2	5.2	31.4	65	25
080E	8000	88.4	97.8	4.2	57.7	65	25	120.7	124.2	5.8	42.8	65	25
090E	9000	101.0	111.3	4.8	58.5	65	25	132.6	136.6	6.3	40.7	65	25
105E	10500	134.4	143.1	6.4	78.6	65	25	152.9	156.4	7.3	60.0	65	25
120E	12000	147.3	156.8	7.0	82.7	65	25	183.1	183.8	8.7	89.0	65	25
135E	13500	161.0	180.2	7.7	27.2	80	32	213.1	209.6	10.2	61.5	80	32
150E	15000	184.2	205.5	8.8	27.8	80	32	242.1	237.1	11.5	62.8	80	32
180E	18000	214.7	240.3	10.2	37.5	80	32	284.1	278.2	13.5	74.4	80	32
210E	21000	257.8	280.3	12.3	26.6	80	32	316.8	315.7	14.8	84.3	80	32
240E	24000	303.1	323.7	14.4	38.3	80	32	357.8	359.1	14.8	92.3	80	32
270E	27000	336.2	364.2	16.0	42.2	80	32	*402.5	*404	*16.5	*95.8	80	32
300E	30000	357.8	387.8	17.0	43.8	80	32	*442.0	*446.8	*17.5	*92.8	80	32
330E	33000	416.7	445.1	19.9	60.7	80	32	*474.6	*489.2	*16.2	*85.3	80	32
350E	35000	429.7	457.3	20.5	65.8	80	32	*534.1	*543.4	*15.9	*86.0	80	32
400E	40000	442.0	489.0	21.1	61.3	80	32	*554.3	*581.7	*18.1	*87.4	80	32
450E	45000	505.1	550.1	24.1	76.1	80	32	*615.6	*651.2	*19.0	*89.6	80	32
500E	50000	561.3	611.2	26.7	90.2	80	32	*684.1	*723.6	*20.4	*95.3	80	32

**NOTE:**

1, Cooling: Ent. Air temp. DB35°C, WB 28°C, water in/out temp. 7°C/12°C. Heating: Ent. Air temp. DB7°C, hot water in temp. 60°C, water flow rate is same as cooling conditions

2, \*To control the water pressure drop, water temp. Rise °C > 5°C



## Unit Performance

Standard Condition (4- pipes heating coil)

Model	Air Volume	1 Rows				2 Rows			
		Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size	Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size
39TD	m <sup>3</sup> /h	kW	l/s	kPa	DN	kW	l/s	kPa	DN
020E	2000	6.4	0.2	8.2	32	13.1	0.3	9.0	32
030E	3000	9.7	0.3	8.3	32	19.3	0.5	9.7	32
040E	4000	13.4	0.3	8.4	32	26.3	0.6	10.6	32
050E	5000	17.6	0.4	8.4	32	34.3	0.8	10.8	32
060E	6000	22.2	0.5	8.6	32	42.2	1.0	11.7	32
070E	7000	25.9	0.6	8.7	32	49.3	1.2	12.3	32
080E	8000	31.0	0.8	9.1	32	54.4	1.3	13.7	32
090E	9000	35.4	0.9	9.1	32	62.3	1.5	13.6	32
105E	10500	40.1	1.0	9.5	32	73.9	1.8	16.5	32
120E	12000	45.8	1.1	10.1	32	84.5	2.1	11.8	32
135E	13500	54.0	1.3	11.1	40	98.2	2.4	17.4	40
150E	15000	59.1	1.4	11.2	40	107.4	2.6	18.0	40
180E	18000	71.9	1.8	12.5	40	129.9	3.2	24.7	40
210E	21000	85.2	2.1	13.9	40	152.8	3.7	32.1	40
240E	24000	98.8	2.4	16.6	40	168.9	4.1	14.6	40
270E	27000	111.1	2.7	16.7	40	186.8	4.6	14.4	40
300E	30000	121.7	3.0	16.5	40	207.6	5.1	14.5	40
330E	33000	135.8	3.3	11.3	40	232.3	5.7	16.6	40
350E	35000	146.1	3.6	13.4	40	246.4	6.0	10.0	40
400E	40000	160.0	3.9	11.6	40	272.0	6.6	16.8	40
450E	45000	179.8	4.4	12.8	40	306.0	7.5	17.7	40
500E	50000	202.8	4.9	14.3	40	346.0	8.4	11.0	40

NOTE:

Heating: Ent.Air temp.DB15 °C, water in/out temp. 60 °C/50 °C.

## Unit Performance

### Fresh Air Condition (4- pipes heating coil)

Model	Air Volume	1 Rows				2 Rows			
		Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size	Heating Capacity	Water Flow Rate	Water Pressure Drop	Water Pipe Size
39TD	m <sup>3</sup> /h	kW	l/s	kPa	DN	kW	l/s	kPa	DN
020E	2000	8.7	0.2	8.3	32	16.0	0.4	9.5	32
030E	3000	13.1	0.3	8.4	32	24.9	0.6	10.7	32
040E	4000	17.7	0.4	8.7	32	32.0	0.8	11.6	32
050E	5000	22.1	0.5	8.7	32	42.2	1.0	11.9	32
060E	6000	27.8	0.7	8.9	32	48.9	1.2	12.7	32
070E	7000	32.5	0.8	9.0	32	60.0	1.5	14.0	32
080E	8000	38.2	0.9	9.6	32	69.7	1.7	16.7	32
090E	9000	43.6	1.1	9.5	32	75.9	1.9	15.8	32
105E	10500	49.4	1.2	10.1	32	90.0	2.2	11.9	32
120E	12000	57.3	1.4	11.0	32	102.9	2.5	16.4	32
135E	13500	66.4	1.6	12.4	40	119.5	2.9	24.3	40
150E	15000	72.7	1.8	12.6	40	130.7	3.2	25.2	40
180E	18000	88.5	2.2	14.4	40	156.8	3.8	34.0	40
210E	21000	103.3	2.5	16.2	40	177.0	4.3	14.3	40
240E	24000	119.7	2.9	11.9	40	202.3	4.9	16.9	40
270E	27000	134.7	3.3	12.0	40	227.6	5.6	17.0	40
300E	30000	149.6	3.7	12.1	40	252.9	6.2	17.1	40
330E	33000	166.9	4.1	16.0	40	282.8	6.9	12.1	40
350E	35000	177.0	4.3	18.6	40	300.0	7.3	14.0	40
400E	40000	193.9	4.7	16.1	40	331.6	8.1	12.4	40
450E	45000	218.1	5.3	17.8	40	373.0	9.1	13.7	40
500E	50000	259.9	6.3	21.9	40	442.6	10.8	16.6	40

**NOTE:**

Heating: Ent.Air temp.DB7 C , water in/out temp.60 C/50 C .



# Unit Performance

## H1, V1

Model	Air Volume	ESP (Pa)				Motor Power		Noise
		H1		V1		H1	V1	
39TD	m <sup>3</sup> /h	4R	6R	4R	6R	kW		dB(A)
020E	2000	220	170	220	170	0.55	0.55	55.0
030E	3000	220	170	220	170	0.75	0.75	58.0
040E	4000	220	170	220	170	1.1	1.1	59.0
050E	5000	220	170	220	170	1.1	1.1	61.0
060E	6000	220	170	220	170	1.5	1.5	62.0
070E	7000	270	220	270	220	2.2	2.2	64.0
080E	8000	270	220	270	220	2.2	2.2	64.0
090E	9000	270	220	270	220	2.2	2.2	65.0
105E	10500	270	220	270	220	3.0	3.0	66.0
120E	12000	270	220	270	220	3.0	3.0	67.0
135E	13500	270	220	270	220	4.0	4.0	68.0
150E	15000	270	220	270	220	4.0	4.0	68.0
180E	18000	320	270	320	270	5.5	5.5	69.0
210E	21000	320	270	320	270	7.5	7.5	70.0
240E	24000	320	270	320	270	7.5	7.5	71.0
270E	27000	420	370	420	370	11.0	11.0	72.0
300E	30000	420	370	420	370	11.0	11.0	73.0
330E	33000	420	370	420	370	15.0	15.0	73.0
350E	35000	470	420	470	420	15.0	15.0	73.5
400E	40000	420	370	420	370	15.0	15.0	73.5
450E	45000	420	370	420	370	18.5	18.5	74.0
500E	50000	420	370	420	370	22.0	22.0	74.0

**NOTE:**

1. The above ESP does not include the pressure drop of wet firm humidifier and hot water coil. PD of humidifier is 20Pa, PD of hot water coil is 25Pa/Row.
2. The ESP can be changed, see page 15 for detail.

## Unit Performance

### H2, H3

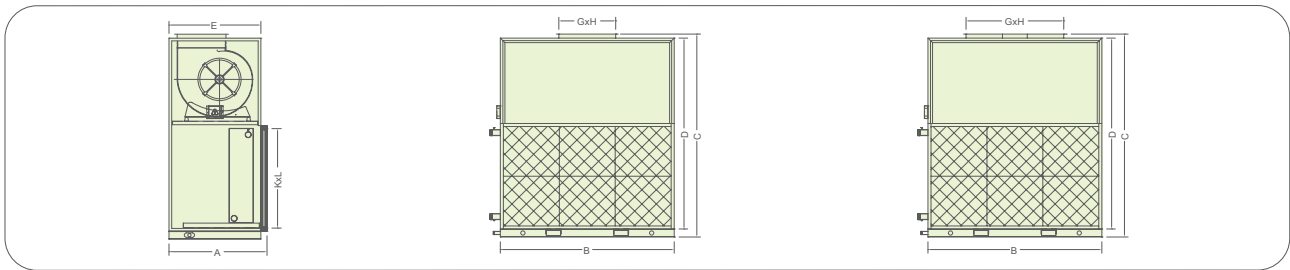
Model	Air Volume	ESP (Pa)				Motor Power		Noise
		H2		H3		H2	H3	
39TD	m <sup>3</sup> /h	4R	6R	4R	6R	kW		dB(A)
020E	2000	220	170	220	170	0.55	0.75	57.0
030E	3000	220	170	220	170	0.75	1.1	59.0
040E	4000	220	170	220	170	1.1	1.5	60.0
050E	5000	220	170	220	170	1.5	1.5	62.0
060E	6000	220	170	220	170	2.2	2.2	63.0
070E	7000	270	220	270	220	2.2	2.2	65.0
080E	8000	270	220	270	220	2.2	3.0	65.0
090E	9000	270	220	270	220	3.0	3.0	66.0
105E	10500	270	220	270	220	3.0	4.0	67.0
120E	12000	270	220	270	220	3.0	4.0	68.0
135E	13500	270	220	270	220	4.0	4.0	69.0
150E	15000	270	220	270	220	5.5	5.5	69.0
180E	18000	320	270	320	270	5.5	7.5	70.0
210E	21000	320	270	320	270	7.5	11.0	71.0
240E	24000	320	270	320	270	7.5	11.	72.0
270E	27000	420	370	370	320	11.0	11.0	73.0
300E	30000	420	370	370	320	15.0	15.0	74.0
330E	33000	420	370	370	320	15.0	15.0	74.0
350E	35000	420	370	370	320	15.0	15.0	75.0
400E	40000	420	370	370	320	15.0	15.0	75.0
450E	45000	420	370	370	320	18.5	18.5	76.0
500E	50000	420	370	370	320	22.0	22.0	76.0

**NOTE:**

1. The above ESP does not include the pressure drop of wet film humidifier and hot water coil. PD of humidifier is 20Pa, PD of hot water coil is 25Pa/Row.
2. The ESP can be changed, see page 16~17 for detail.

# Unit Dimension And Weight

V1



Model 39TD	Dimensions (mm)										
	A	A' (With heating coil option)	B	C	D	E	E' (With heating coil option)	G	H	K	L
020E	640	840	900	1120	1000	580	780	232	262	840	390
030E	640	840	1000	1220	1100	580	780	298	262	940	490
040E	640	840	1100	1320	1200	580	780	331	289	1040	550
050E	720	920	1100	1520	1400	660	860	309	341	1040	700
060E	720	920	1200	1620	1500	660	860	395	341	1140	750
070E	800	1000	1200	1720	1600	740	940	373	404	1140	800
080E	800	1000	1400	1720	1600	740	940	373	404	1340	800
090E	930	1130	1400	1920	1800	870	1070	430	478	1340	900
105E	930	1130	1600	1920	1800	870	1070	430	478	1540	900
120E	930	1130	1700	1920	1800	870	1070	557	478	1640	900
135E	930	1130	2000	1920	1800	870	1070	1040	404	1940	900
150E	930	1130	2000	2020	1900	870	1070	1040	404	1940	1000
180E	960	1160	2200	2120	2000	900	1100	1203	478	2140	1050
210E	960	1160	2500	2120	2000	900	1100	1203	478	2440	1050
240E	960	1160	2800	2220	2100	900	1100	1572	478	2740	1150
270E	960	1160	2800	2320	2200	900	1100	1572	478	2740	1200
300E	960	1160	2800	2420	2300	900	1100	1572	478	2740	1350
330E	1060	1260	3100	2420	2300	1000	1200	1588	569	3040	1300
350E	1160	1360	3200	2520	2400	1100	1300	1776	638	3140	1300
400E	1160	1360	3400	2620	2500	1100	1300	1776	638	3340	1400
450E	1160	1360	3600	2720	2600	1100	1300	1776	638	3540	1500
500E	1160	1360	3800	2720	2600	1100	1300	1776	638	3740	1500

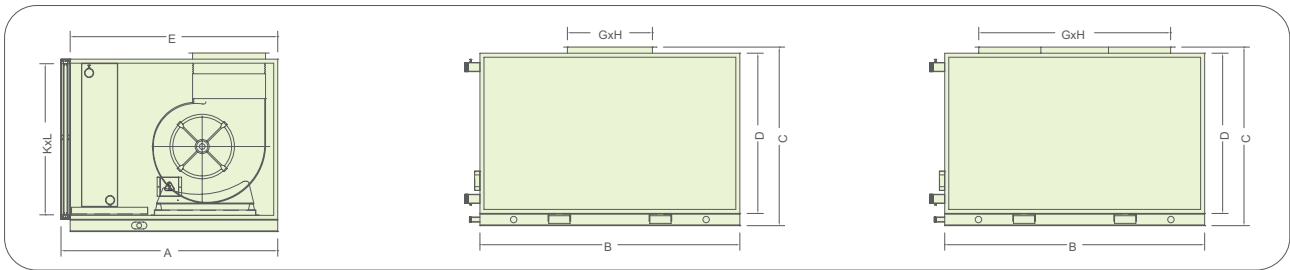
Model 39TD	Weight (kg)									
	Standard unit		With 50mm wet film humidifier option		With 100mm wet film humidifier option		With 1row heating coil option		With 2row heating coil option	
	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows
020E	137	143	138	144	139	145	164	170	167	173
030E	153	160	155	162	157	164	182	189	186	193
040E	175	183	177	185	179	187	206	214	211	219
050E	206	216	208	218	210	220	240	250	247	257
060E	231	244	234	247	237	250	268	281	275	288
070E	257	272	260	275	263	278	296	311	304	319
080E	272	289	275	292	278	295	312	329	322	339
090E	326	344	330	348	334	352	373	391	385	403
105E	360	376	365	381	370	386	409	425	423	439
120E	367	394	372	399	377	404	418	445	433	460
135E	481	518	487	524	493	530	535	572	552	589
150E	491	520	497	526	503	532	547	576	565	594
180E	570	611	578	619	586	627	633	674	655	696
210E	631	673	640	682	649	691	699	741	724	766
240E	682	730	692	740	702	750	754	802	782	830
270E	735	789	750	804	765	819	812	866	843	897
300E	786	845	802	861	818	877	868	927	902	961
330E	952	1018	966	1032	980	1046	1042	1108	1079	1145
350E	1020	1089	1035	1104	1050	1119	1112	1181	1152	1221
400E	1067	1181	1083	1197	1099	1213	1175	1289	1219	1333
450E	1112	1129	1130	1147	1148	1165	1228	1245	1276	1293
500E	1194	1330	1214	1350	1234	1370	1316	1452	1370	1506

**NOTE:**

1. For model 400D and above, the ex-fy transportation will be CKD
2. For the unit with wet film humidifier option, dimension will not change
3. For the unit with heating coil option, unit length will increase 200mm (refer to A' and E')
4. Flange height is 40mm
5. Heating coil and wet film is alternative.

# Unit Dimension And Weight

H1



Model 39TD	Dimensions (mm)										
	A	A' (With heating coil option)	B	C	D	E	E' (With heating coil option)	G	H	K	L
020E	1060	1260	853	690	570	1000	1200	232	262	793	510
030E	1160	1360	953	720	600	1100	1300	298	262	893	540
040E	1160	1360	1053	790	670	1100	1300	331	289	993	610
050E	1160	1360	1053	920	800	1100	1300	309	341	993	740
060E	1160	1360	1153	990	870	1100	1300	395	341	1093	810
070E	1260	1460	1203	1070	950	1200	1400	373	404	1143	890
080E	1260	1460	1353	1070	950	1200	1400	373	404	1293	890
090E	1410	1610	1353	1170	1050	1350	1550	430	478	1293	990
105E	1410	1610	1553	1170	1050	1350	1550	430	478	1493	990
120E	1460	1660	1703	1170	1050	1400	1600	557	478	1643	990
135E	1360	1560	1953	1170	1050	1300	1500	1040	404	1893	990
150E	1360	1560	1953	1270	1150	1300	1500	1040	404	1893	1090
180E	1510	1710	2153	1320	1200	1450	1650	1203	478	2093	1140
210E	1510	1710	2353	1370	1250	1450	1650	1203	478	2293	1190
240E	1510	1710	2653	1370	1250	1450	1650	1572	478	2593	1190
270E	1510	1710	2653	1500	1380	1450	1650	1572	478	2593	1320
300E	1560	1760	2653	1620	1500	1500	1700	1572	478	2593	1440
330E	1610	1810	2903	1620	1500	1550	1750	1588	569	2843	1440
350E	1710	1910	3053	1620	1500	1650	1850	1776	638	2993	1440
400E	1760	1960	3053	1873	1753	1700	1900	1776	638	2993	1693
450E	1760	1960	3053	2000	1880	1700	1900	1776	638	2993	1820
500E	1760	1960	3153	2130	2010	1700	1900	1776	638	3093	1950

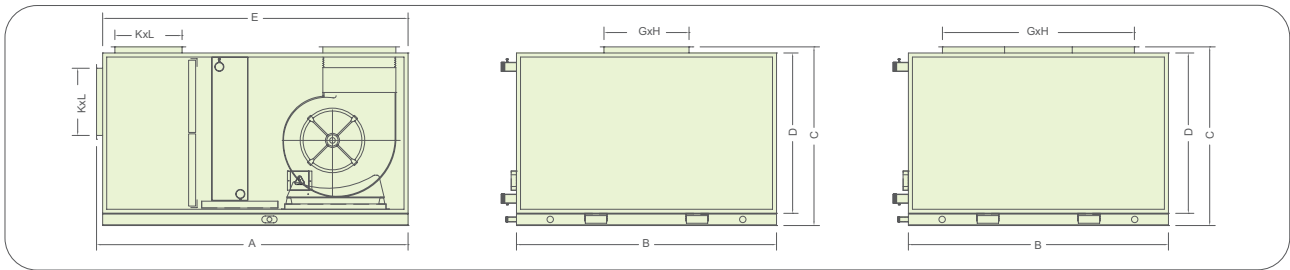
Model 39TD	Weight (kg)									
	Standard unit		With 50mm wet film humidifier option		With 100mm wet film humidifier option		With 1row heating coil option		With 2row heating coil option	
	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows
020E	129	138	130	139	131	140	156	165	159	168
030E	148	155	150	157	152	159	177	184	181	188
040E	167	175	169	177	171	179	198	206	203	211
050E	186	197	188	199	190	201	220	231	227	238
060E	211	223	214	226	217	229	248	260	255	267
070E	242	257	245	260	248	263	281	296	289	304
080E	256	272	259	275	262	278	296	312	306	322
090E	299	318	303	322	307	326	346	365	358	377
105E	325	342	330	347	335	352	374	391	388	405
120E	350	376	355	381	360	386	401	427	416	442
135E	442	459	448	465	454	471	496	513	513	530
150E	447	470	453	476	459	482	503	526	521	544
180E	539	580	547	588	555	596	602	643	624	665
210E	584	626	593	635	602	644	652	694	677	719
240E	644	692	654	702	664	712	716	764	744	792
270E	728	781	743	796	758	811	805	858	836	889
300E	761	813	777	829	793	845	843	895	877	929
330E	882	947	896	961	910	975	972	1037	1009	1074
350E	953	1022	968	1037	983	1052	1045	1114	1085	1154
400E	986	1099	1002	1115	1018	1131	1094	1207	1138	1251
450E	1070	1187	1088	1205	1106	1223	1186	1303	1234	1351
500E	1097	1231	1117	1251	1137	1271	1219	1353	1273	1407

NOTE:

1. 39TD500E unit is double coil (up and down layout)
2. For the unit with wet film humidifier option, dimension will not change
3. For the unit with heating coil option, unit length will increase 200mm (refer to A' and E')
4. Flange height is 40mm
5. Heating coil and wet film is alternative.

# Unit Dimension And Weight

H2



Model 39TD	Dimensions (mm)										
	A	A' (With heating coil option)	B	C	D	E	E' (With heating coil option)	G	H	K	L
020E	1540	1740	853	690	570	1500	1700	232	262	600	160
030E	1640	1840	953	720	600	1600	1800	298	262	600	300
040E	1640	1840	1053	790	670	1600	1800	331	289	700	300
050E	1640	1840	1053	920	800	1600	1800	309	341	800	300
060E	1640	1840	1153	990	870	1600	1800	395	341	900	300
070E	1740	1940	1203	1070	950	1700	1900	373	404	1000	300
080E	1740	1940	1353	1070	950	1700	1900	373	404	1100	300
090E	1990	2190	1353	1170	1050	1950	2150	430	478	1000	440
105E	1990	2190	1553	1170	1050	1950	2150	430	478	1100	440
120E	2040	2240	1703	1170	1050	2000	2200	557	478	1200	440
135E	1940	2140	1953	1170	1050	1900	2100	1040	404	1300	440
150E	1940	2140	1953	1270	1150	1900	2100	1040	404	1500	440
180E	2090	2290	2153	1320	1200	2050	2250	1203	478	1700	440
210E	2090	2290	2353	1370	1250	2050	2250	1203	478	1900	440
240E	2090	2290	2653	1370	1250	2050	2250	1572	478	2200	440
270E	2290	2490	2653	1500	1380	2250	2450	1572	478	2200	580
300E	2340	2540	2653	1620	1500	2300	2500	1572	478	2300	580
330E	2390	2590	2903	1620	1500	2350	2550	1588	569	2400	580
350E	2490	2690	3053	1620	1500	2450	2650	1776	638	2400	580
400E	2540	2740	3053	1873	1753	2500	2700	1776	638	2600	580
450E	2540	2740	3053	2000	1880	2500	2700	1776	638	2800	580
500E	2640	2840	3153	2130	2010	2600	2800	1776	638	2800	630

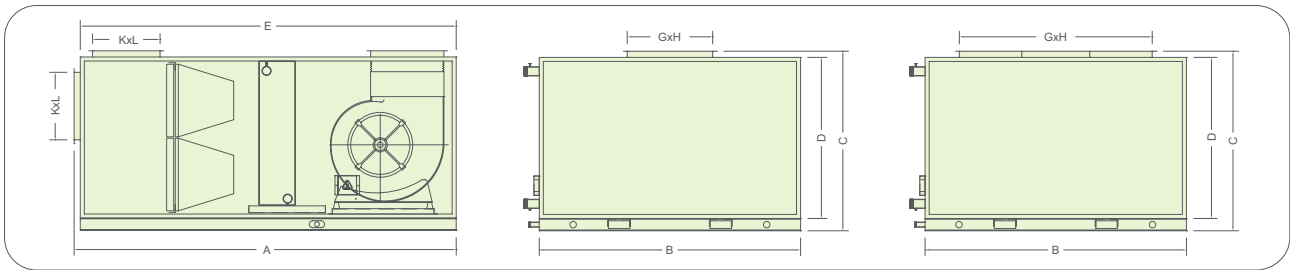
Model 39TD	Weight (kg)									
	Standard unit		With 50mm wet film humidifier option		With 100mm wet film humidifier option		With 1row heating coil option		With 2row heating coil option	
	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows
020E	158	164	159	165	160	166	185	191	188	194
030E	177	184	179	186	181	188	206	213	210	217
040E	201	208	203	210	205	212	232	239	237	244
050E	230	240	232	242	234	244	264	274	271	281
060E	261	274	264	277	267	280	298	311	305	318
070E	288	303	291	306	294	309	327	342	335	350
080E	319	335	322	338	325	341	359	375	369	385
090E	343	362	347	366	351	370	390	409	402	421
105E	392	408	397	413	402	418	441	457	455	471
120E	426	452	431	457	436	462	477	503	492	518
135E	525	554	531	560	537	566	579	608	596	625
150E	569	597	575	603	581	609	625	653	643	671
180E	652	693	660	701	668	709	715	756	737	778
210E	707	750	716	759	725	768	775	818	800	843
240E	780	829	790	839	800	849	852	901	880	929
270E	912	965	927	980	942	995	989	1042	1020	1073
300E	958	1017	974	1033	990	1049	1040	1099	1074	1133
330E	1084	1149	1098	1163	1112	1177	1174	1239	1211	1276
350E	1170	1239	1185	1254	1200	1269	1262	1331	1302	1371
400E	1202	1315	1218	1331	1234	1347	1310	1423	1354	1467
450E	1285	1403	1303	1421	1321	1439	1401	1519	1449	1567
500E	1324	1459	1344	1479	1364	1499	1446	1581	1500	1635

NOTE:

- 39TD500E unit is double coil (up and down layout)
- For the unit with wet film humidifier option, dimension will not change
- For the unit with heating coil option, unit length will increase 200mm (refer to A' and E')
- Flange height is 40mm
- Heating coil and wet film is alternative.

# Unit Dimension And Weight

H3



Model 39TD	Dimensions (mm)										
	A	A' (With heating coil option)	B	C	D	E	E' (With heating coil option)	G	H	K	L
020E	1990	2190	853	690	570	1950	2150	232	262	600	160
030E	2040	2240	953	720	600	2000	2200	298	262	600	300
040E	2090	2290	1053	790	670	2050	2250	331	289	700	300
050E	2090	2290	1053	920	800	2050	2250	309	341	800	300
060E	2090	2290	1153	990	870	2050	2250	395	341	900	300
070E	2190	2390	1203	1070	950	2150	2350	373	404	1000	300
080E	2190	2390	1353	1070	950	2150	2350	373	404	1100	300
090E	2440	2640	1353	1170	1050	2400	2600	430	478	1000	440
105E	2440	2640	1553	1170	1050	2400	2600	430	478	1100	440
120E	2490	2690	1703	1170	1050	2450	2650	557	478	1200	440
135E	2390	2590	1953	1170	1050	2350	2550	1040	404	1300	440
150E	2390	2590	1953	1270	1150	2350	2550	1040	404	1500	440
180E	2540	2740	2153	1320	1200	2500	2700	1203	478	1700	440
210E	2540	2740	2353	1370	1250	2500	2700	1203	478	1900	440
240E	2540	2740	2653	1370	1250	2500	2700	1572	478	2200	440
270E	2740	2940	2653	1500	1380	2700	2900	1572	478	2200	580
300E	2790	2990	2653	1620	1500	2750	2950	1572	478	2300	580
330E	2840	3040	2903	1620	1500	2800	3000	1588	569	2400	580
350E	2940	3140	3053	1620	1500	2900	3100	1776	638	2400	580
400E	2940	3140	3053	1873	1753	2900	3100	1776	638	2600	580
450E	2940	3140	3053	2000	1880	2900	3100	1776	638	2800	580
500E	3040	3240	3153	2130	2010	3000	3200	1776	638	2800	630

Model 39TD	Weight (kg)									
	Standard unit		With 50mm wet film humidifier option		With 100mm wet film humidifier option		With 1row heating coil option		With 2row heating coil option	
	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows	4rows	6rows
020E	176	181	177	182	178	183	203	208	206	211
030E	197	201	199	203	201	205	226	230	230	234
040E	224	232	226	234	228	236	255	263	260	268
050E	249	259	251	261	253	263	283	293	290	300
060E	282	295	285	298	288	301	319	332	326	339
070E	310	324	313	327	316	330	349	363	357	371
080E	345	362	348	365	351	368	385	402	395	412
090E	394	412	398	416	402	420	441	459	453	471
105E	433	450	438	455	443	460	482	499	496	513
120E	471	494	476	499	481	504	522	545	537	560
135E	574	598	580	604	586	610	628	652	645	669
150E	622	645	628	651	634	657	678	701	696	719
180E	727	759	735	767	743	775	790	822	812	844
210E	809	842	818	851	827	860	877	910	902	935
240E	885	922	895	932	905	942	957	994	985	1022
270E	978	1022	993	1037	1008	1052	1055	1099	1086	1130
300E	1033	1092	1049	1108	1065	1124	1115	1174	1149	1208
330E	1185	1250	1199	1264	1213	1278	1275	1340	1312	1377
350E	1246	1316	1261	1331	1276	1346	1338	1408	1378	1448
400E	1306	1400	1322	1416	1338	1432	1414	1508	1458	1552
450E	1421	1539	1439	1557	1457	1575	1537	1655	1585	1703
500E	1462	1597	1482	1617	1502	1637	1584	1719	1638	1773

NOTE:

- 39TD500E unit is double coil (up and down layout)
- For the unit with wet film humidifier option, dimension will not change
- For the unit with heating coil option, unit length will increase 200mm (refer to A' and E')
- Flange height is 40mm
- Heating coil and wet film is alternative.

# Esp-Motor Power Table

H1, V1

Model 39TD	Air Volume m³/h	Coil Row	ESP-Motor Power (kW)											
			120	170	220	270	320	370	420	470	520	570	620	670
020E	2000	4	0.55	0.55	<b>0.55</b>	0.55	0.55	0.75	0.75	0.75				
		6	0.55	<b>0.55</b>	0.55	0.55	0.75	0.75	0.75	1.1				
030E	3000	4	0.55	0.75	<b>0.75</b>	0.75	1.1	1.1	1.1	1.1				
		6	0.75	<b>0.75</b>	0.75	1.1	1.1	1.1	1.1	1.1				
040E	4000	4	1.1	1.1	<b>1.1</b>	1.1	1.1	1.5	1.5	1.5				
		6	1.1	<b>1.1</b>	1.1	1.1	1.5	1.5	1.5	1.5				
050E	5000	4	1.1	1.1	<b>1.1</b>	1.5	1.5	1.5	1.5	2.2				
		6	1.1	<b>1.1</b>	1.5	1.5	1.5	1.5	2.2	2.2				
060E	6000	4	1.5	1.5	<b>1.5</b>	2.2	2.2	2.2	2.2	2.2				
		6	1.5	<b>1.5</b>	2.2	2.2	2.2	2.2	2.2	3.0				
070E	7000	A	1.5	1.5	1.5	<b>2.2</b>	2.2	2.2	2.2	2.2	3.0	3.0		
		6	1.5	1.5	<b>2.2</b>	2.2	2.2	2.2	2.2	3.0	3.0	3.0		
080E	8000	4	2.2	2.2	2.2	<b>2.2</b>	2.2	3.0	3.0	3.0	3.0	3.0		
		6	2.2	2.2	<b>2.2</b>	2.2	3.0	3.0	3.0	3.0	3.0	4.0		
090E	9000	4	2.2	2.2	2.2	<b>2.2</b>	3.0	3.0	3.0	3.0	4.0	4.0		
		6	2.2	2.2	<b>2.2</b>	3.0	3.0	3.0	3.0	4.0	4.0	4.0		
105E	10500	4	2.2	3.0	3.0	<b>3.0</b>	3.0	3.0	4.0	4.0	4.0	4.0		
		6	3.0	3.0	<b>3.0</b>	3.0	3.0	4.0	4.0	4.0	4.0	5.5		
120E	12000	4	2.2	3.0	3.0	<b>3.0</b>	3.0	4.0	4.0	4.0	4.0	5.5		
		6	3.0	3.0	<b>3.0</b>	3.0	4.0	4.0	4.0	4.0	5.5	5.5		
135E	13500	4	3.0	3.0	3.0	<b>4.0</b>	4.0	4.0	4.0	5.5	5.5	5.5		
		6	3.0	3.0	<b>4.0</b>	4.0	4.0	4.0	5.5	5.5	5.5	5.5		
150E	15000	4	3.0	4.0	4.0	<b>4.0</b>	5.5	5.5	5.5	5.5	5.5	7.5		
		6	4.0	4.0	<b>4.0</b>	5.5	5.5	5.5	5.5	5.5	7.5	7.5		
180E	18000	4	4.0	4.0	5.5	5.5	<b>5.5</b>	5.5	7.5	7.5	7.5	7.5		
		6	4.0	5.5	5.5	<b>5.5</b>	5.5	7.5	7.5	7.5	7.5	7.5		
210E	21000	4	5.5	5.5	5.5	7.5	<b>7.5</b>	7.5	7.5	11.0	11.0	11.0		
		6	5.5	5.5	7.5	<b>7.5</b>	7.5	7.5	11.0	11.0	11.0	11.0		
240E	24000	4	5.5	5.5	5.5	7.5	<b>7.5</b>	7.5	11.0	11.0	11.0	11.0		
		6	5.5	5.5	7.5	<b>7.5</b>	7.5	11.0	11.0	11.0	11.0	11.0		
270E	27000	4	7.5	7.5	7.5	7.5	11.0	11.0	<b>11.0</b>	11.0	11.0	11.0	15.0	15.0
		6	7.5	7.5	7.5	11.0	11.0	<b>11.0</b>	11.0	11.0	11.0	15.0	15.0	
300E	30000	4	7.5	11.0	11.0	11.0	11.0	11.0	<b>11.0</b>	15.0	15.0	15.0	15.0	
		6	11.0	11.0	11.0	11.0	11.0	<b>11.0</b>	15.0	15.0	15.0	15.0		
330E	33000	4	7.5	11.0	11.0	11.0	11.0	11.0	<b>15.0</b>	15.0	15.0	15.0	15.0	15.0
		6	11.0	11.0	11.0	11.0	11.0	<b>15.0</b>	15.0	15.0	15.0	15.0	15.0	18.5
350E	35000	4	7.5	7.5	11.0	11.0	11.0	11.0	11.0	<b>15.0</b>	15.0	15.0	15.0	15.0
		6	7.5	11.0	11.0	11.0	11.0	11.0	<b>15.0</b>	15.0	15.0	15.0	15.0	18.5
400E	40000	4	11.0	11.0	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	18.5	18.5	18.5
		6	11.0	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	18.5	18.5	18.5	18.5
450E	45000	4	15.0	15.0	15.0	15.0	15.0	15.0	18.5	<b>18.5</b>	18.5	18.5	22.0	22.0
		6	15.0	15.0	15.0	15.0	15.0	18.5	<b>18.5</b>	18.5	18.5	22.0	22.0	
500E	50000	4	15.0	15.0	18.5	18.5	18.5	18.5	22.0	<b>22.0</b>	22.0			
			15.0	18.5	18.5	18.5	18.5	22.0	<b>22.0</b>	22.0				

NOTE: The motor power data in bold is the motor power in rated ESP.



# Esp-Motor Power Table

H2

Model 39TD	Air Volume m³/h	Coil Row	ESP-Motor Power (kW)											
			120	170	220	270	320	370	420	470	520	570	620	670
020E	2000	4	0.55	0.55	<b>0.55</b>	0.75	0.75	0.75	0.75	1.1				
		6	0.55	<b>0.55</b>	0.75	0.75	0.75	0.75	1.1	1.1				
030E	3000	4	0.75	0.75	<b>0.75</b>	1.1	1.1	1.1	1.1	1.1				
		6	0.75	<b>0.75</b>	1.1	1.1	1.1	1.1	1.1	1.5				
040E	4000	4	1.1	1.1	<b>1.1</b>	1.1	1.5	1.5	1.5	2.2				
		6	1.1	<b>1.1</b>	1.1	1.5	1.5	1.5	2.2	2.2				
050E	5000	4	1.1	1.1	<b>1.5</b>	1.5	1.5	1.5	2.2	2.2				
		6	1.1	<b>1.5</b>	1.5	1.5	1.5	2.2	2.2	2.2				
060E	6000	4	1.5	1.5	<b>2.2</b>	2.2	2.2	2.2	2.2	3.0				
		6	1.5	<b>2.2</b>	2.2	2.2	2.2	2.2	3.0	3.0				
070E	7000	4	1.5	1.5	2.2	<b>2.2</b>	2.2	2.2	2.2	3.0	3.0	3.0		
		6	1.5	2.2	<b>2.2</b>	2.2	2.2	2.2	3.0	3.0	3.0	3.0		
080E	8000	4	2.2	2.2	2.2	<b>2.2</b>	3.0	3.0	3.0	3.0	3.0	4.0		
		6	2.2	2.2	<b>2.2</b>	3.0	3.0	3.0	3.0	3.0	4.0	4.0		
090E	9000	4	2.2	2.2	2.2	<b>3.0</b>	3.0	3.0	3.0	4.0	4.0	4.0		
		6	2.2	2.2	<b>3.0</b>	3.0	3.0	3.0	4.0	4.0	4.0	4.0		
105E	10500	4	3.0	3.0	3.0	<b>3.0</b>	4.0	4.0	4.0	4.0	4.0	5.5		
		6	3.0	3.0	<b>3.0</b>	4.0	4.0	4.0	4.0	4.0	5.5	5.5		
120E	12000	4	3.0	3.0	3.0	<b>3.0</b>	4.0	4.0	4.0	5.5	5.5	5.5		
		6	3.0	3.0	<b>3.0</b>	4.0	4.0	4.0	5.5	5.5	5.5	5.5		
135E	13500	4	3.0	3.0	4.0	<b>4.0</b>	4.0	4.0	5.5	5.5	5.5	5.5		
		6	3.0	4.0	<b>4.0</b>	4.0	4.0	5.5	5.5	5.5	5.5	7.5		
150E	15000	4	4.0	4.0	4.0	<b>5.5</b>	5.5	5.5	5.5	5.5	7.5	7.5		
		6	4.0	4.0	<b>5.5</b>	5.5	5.5	5.5	5.5	7.5	7.5	7.5		
180E	18000	4	4.0	5.5	5.5	5.5	<b>5.5</b>	7.5	7.5	7.5	7.5	7.5		
		6	5.5	5.5	5.5	<b>5.5</b>	7.5	7.5	7.5	7.5	7.5	11.0		
210E	21000	4	5.5	5.5	7.5	7.5	<b>7.5</b>	7.5	11.0	11.0	11.0	11.0		
		6	5.5	7.5	7.5	<b>7.5</b>	7.5	11.0	11.0	11.0	11.0	11.0		
240E	24000	4	5.5	5.5	7.5	7.5	<b>7.5</b>	11.0	11.0	11.0	11.0	11.0		
		6	5.5	7.5	7.5	<b>7.5</b>	11.0	11.0	11.0	11.0	11.0			
270E	27000	4	7.5	7.5	7.5	11.0	11.0	11.0	<b>11.0</b>	11.0	11.0	15.0	15.0	
		6	7.5	7.5	11.0	11.0	11.0	<b>11.0</b>	11.0	11.0	15.0	15.0		
300E	30000	4	11.0	11.0	11.0	11.0	11.0	11.0	<b>15.0</b>	15.0	15.0	15.0		
		6	11.0	11.0	11.0	11.0	11.0	<b>15.0</b>	15.0	15.0	15.0			
330E	33000	4	11.0	11.0	11.0	11.0	11.0	15.0	<b>15.0</b>	15.0	15.0	15.0	15.0	
		6	11.0	11.0	11.0	11.0	15.0	<b>15.0</b>	15.0	15.0	15.0	15.0	18.5	
350E	35000	4	7.5	11.0	11.0	11.0	11.0	15.0	<b>15.0</b>	15.0	15.0	15.0	15.0	
		6	11.0	11.0	11.0	11.0	15.0	<b>15.0</b>	15.0	15.0	15.0	15.0	18.5	
400E	40000	4	11.0	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	18.5	18.5	18.5	
		6	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	18.5	18.5	18.5	18.5	
450E	45000	4	15.0	15.0	15.0	15.0	15.0	18.5	<b>18.5</b>	18.5	18.5	22.0	22.0	
		6	15.0	15.0	15.0	15.0	18.5	<b>18.5</b>	18.5	18.5	22.0	22.0		
500E	50000	4	15.0	18.5	18.5	18.5	18.5	22.0	<b>22.0</b>	22.0				
		6	18.5	18.5	18.5	18.5	22.0	<b>22.0</b>	22.0					

NOTE: The motor power data in bold is the motor power in rated ESP.

# Esp-Motor Power Table

H3

Model 39TD	Air Volume m³/h	Coil Row	ESP-Motor Power (kW)											
			120	170	220	270	320	370	420	470	520	570	620	670
020E	2000	4	0.55	0.75	<b>0.75</b>	0.75	0.75	1.1	1.1	1.1				
		6	0.75	<b>0.75</b>	0.75	0.75	1.1	1.1	1.1	1.1				
030E	3000	4	0.75	1.1	<b>1.1</b>	1.1	1.1	1.1	1.5	1.5				
		6	1.1	<b>1.1</b>	1.1	1.1	1.1	1.5	1.5					
040E	4000	4	1.1	1.1	<b>1.5</b>	1.5	1.5	2.2	2.2	2.2				
		6	1.1	<b>1.5</b>	1.5	1.5	2.2	2.2	2.2	2.2				
050E	5000	4	1.5	1.5	<b>1.5</b>	1.5	2.2	2.2	2.2	2.2				
		6	1.5	<b>1.5</b>	1.5	2.2	2.2	2.2	2.2	2.2				
060E	6000	4	2.2	2.2	<b>2.2</b>	2.2	2.2	3.0	3.0	3.0				
		6	2.2	<b>2.2</b>	2.2	2.2	3.0	3.0	3.0					
070E	7000	4	2.2	2.2	2.2	<b>2.2</b>	2.2	3.0	3.0	3.0	3.0	3.0		
		6	2.2	2.2	<b>2.2</b>	2.2	3.0	3.0	3.0	3.0	3.0	4.0		
080E	8000	4	2.2	2.2	3.0	<b>3.0</b>	3.0	3.0	3.0	3.0	4.0	4.0		
		6	2.2	3.0	<b>3.0</b>	3.0	3.0	3.0	3.0	4.0	4.0	4.0		
090E	9000	4	2.2	3.0	3.0	<b>3.0</b>	3.0	4.0	4.0	4.0	4.0	4.0		
		6	3.0	3.0	<b>3.0</b>	3.0	4.0	4.0	4.0	4.0	4.0	5.5		
105E	10500	4	3.0	3.0	4.0	<b>4.0</b>	4.0	4.0	4.0	5.5	5.5	5.5		
		6	3.0	4.0	<b>4.0</b>	4.0	4.0	4.0	5.5	5.5	5.5	5.5		
120E	12000	4	3.0	3.0	4.0	<b>4.0</b>	4.0	5.5	5.5	5.5	5.5			
		6	3.0	4.0	<b>4.0</b>	4.0	5.5	5.5	5.5	5.5				
135E	13500	4	4.0	4.0	4.0	<b>4.0</b>	5.5	5.5	5.5	5.5	7.5			
		6	4.0	4.0	<b>4.0</b>	5.5	5.5	5.5	5.5	7.5				
150E	15000	4	4.0	5.5	5.5	<b>5.5</b>	5.5	5.5	7.5	7.5	7.5	7.5		
		6	5.5	5.5	<b>5.5</b>	5.5	5.5	7.5	7.5	7.5	7.5			
180E	18000	4	5.5	5.5	5.5	7.5	<b>7.5</b>	7.5	7.5	7.5	11.0	11.0		
		6	5.5	5.5	7.5	<b>7.5</b>	7.5	7.5	7.5	11.0	11.0	11.0		
210E	21000	4	7.5	7.5	7.5	7.5	<b>11.0</b>	11.0	11.0	11.0	11.0	11.0		
		6	7.5	7.5	7.5	<b>11.0</b>	11.0	11.0	11.0	11.0	11.0	11.0		
240E	24000	4	7.5	7.5	7.5	11.0	<b>11.0</b>	11.0	11.0	11.0				
		6	7.5	7.5	11.0	<b>11.0</b>	11.0	11.0	11.0					
270E	27000	4	7.5	11.0	11.0	11.0	11.0	11.0	<b>11.0</b>	15.0	15.0			
		6	11.0	11.0	11.0	11.0	11.0	<b>11.0</b>	15.0	15.0				
300E	30000	4	11.0	11.0	11.0	11.0	15.0	15.0	<b>15.0</b>	15.0				
		6	11.0	11.0	11.0	15.0	15.0	<b>15.0</b>	15.0					
330E	33000	4	11.0	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	15.0	18.5		
		6	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	15.0	18.5	18.5		
350E	35000	4	11.0	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	15.0			
		6	11.0	11.0	15.0	15.0	15.0	<b>15.0</b>	15.0	15.0	18.5			
400E	40000	4	11.0	15.0	15.0	15.0	15.0	<b>15.0</b>	18.5	18.5	18.5	18.5		
		6	15.0	15.0	15.0	15.0	<b>15.0</b>	18.5	18.5	18.5	18.5			
450E	45000	4	15.0	15.0	15.0	18.5	18.5	<b>18.5</b>	18.5	22.0	22.0	1		
		6	15.0	15.0	18.5	18.5	<b>18.5</b>	18.5	22.0	22.0				
500E	50000	4	18.5	18.5	18.5	22.0	22.0	<b>22.0</b>						
		6	18.5	18.5	22.0	22.0	<b>22.0</b>							

NOTE: The motor power data in bold is the motor power in rated ESP.

## Structural Characteristics

**Panel Structure:** 25mm foaming double-panel structure with good rigidity and sound thermal insulation.

## Filter

Vertical and horizontal unit I employs external slide nylon nets.

Horizontal unit II takes the structure of the panel's primary (G3/G4) slide.

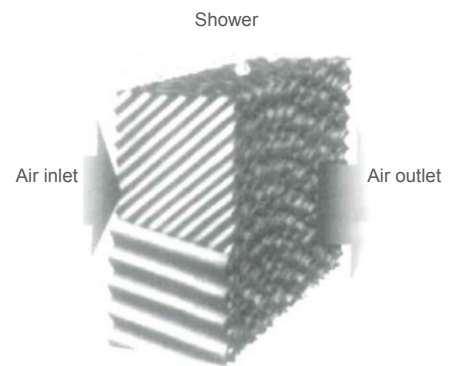
unit III takes the structure of the panel's primary (G3/G4) + bag intermediate (F5/F6) common slide.

## Wet Film Humidifier

The wet film humidifier is made of hydrophilic materials, which is manufactured according to the principle of evenly distributing the moisture it absorbed to the material surface, which in turn, forms a water gasification layer that enables moisture to be evaporated, gasified, and absorbed by passing air. The thickness of the wet film can be 50mm or 100mm; depending on humidification capacity. The water supply volume shall be 3 times the humidification capacity.

## Application Conditions

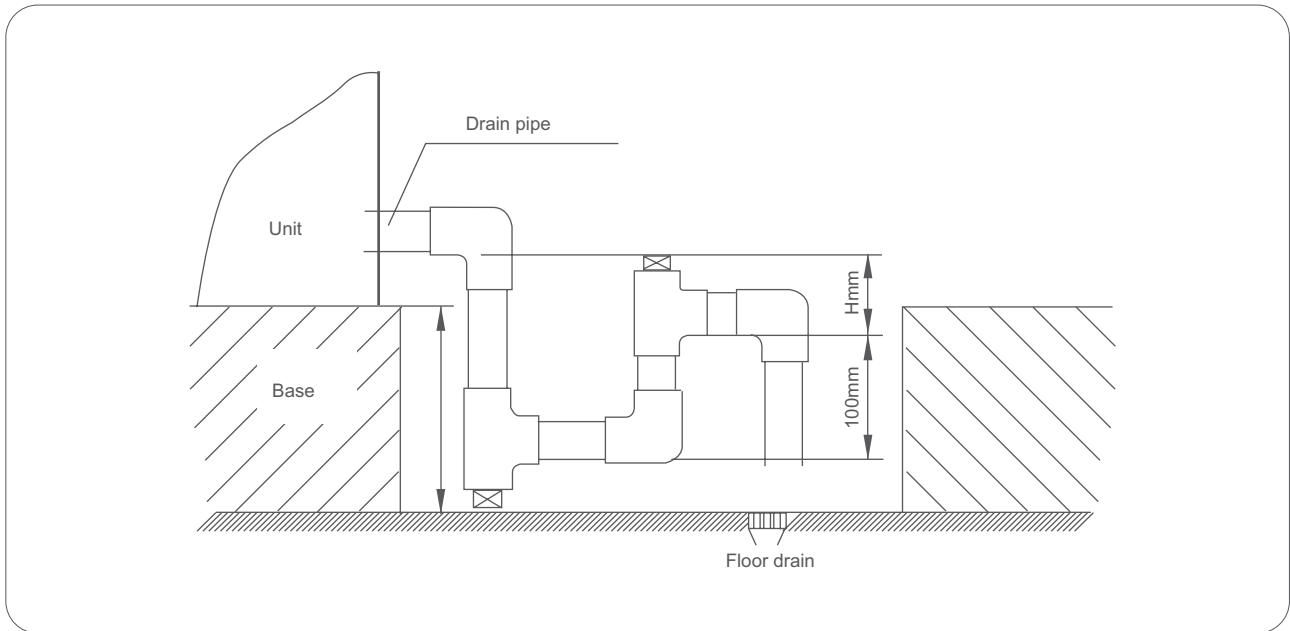
Ambient temperature and humidity	Humidifier body: 5 - 80 °C ; below 90% RH
Critical wind speed	Lower than 3.75m/s
Quality of water supply	Tap water or Purified water
State of water supply	0.05 - 0.4Mpa, 5 - 40 °C
Volume of water supply	2-3 times of the humidification capacity withan external water supply interface dimension of DN 15G1/2
Power supply	AC 200V/50Hz



Model 39TD	020E	030E	040E	050E	060E	070E	080E	090E	105E	120E	135E	150E	180E	210E	240E	270E	300E	330E	350E	400E	450E	500E
50mm Humidifi cation capacity of wet film (kg/h)	5.4	7.7	9.4	12.1	14.7	16.3	18.7	21.1	24.7	27.4	31.8	35.4	41.4	47.6	54.3	59.2	66.3	73.1	77.2	83.5	93.7	107.1
100mm Humidifi cation capacity of wet film (kg/h)	10.9	15.4	18.9	24.2	29.3	32.6	37.4	42.2	49.4	54.9	63.6	70.7	82.8	95.2	108.5	118.4	132.6	146.2	154.4	167.1	187.4	214.2

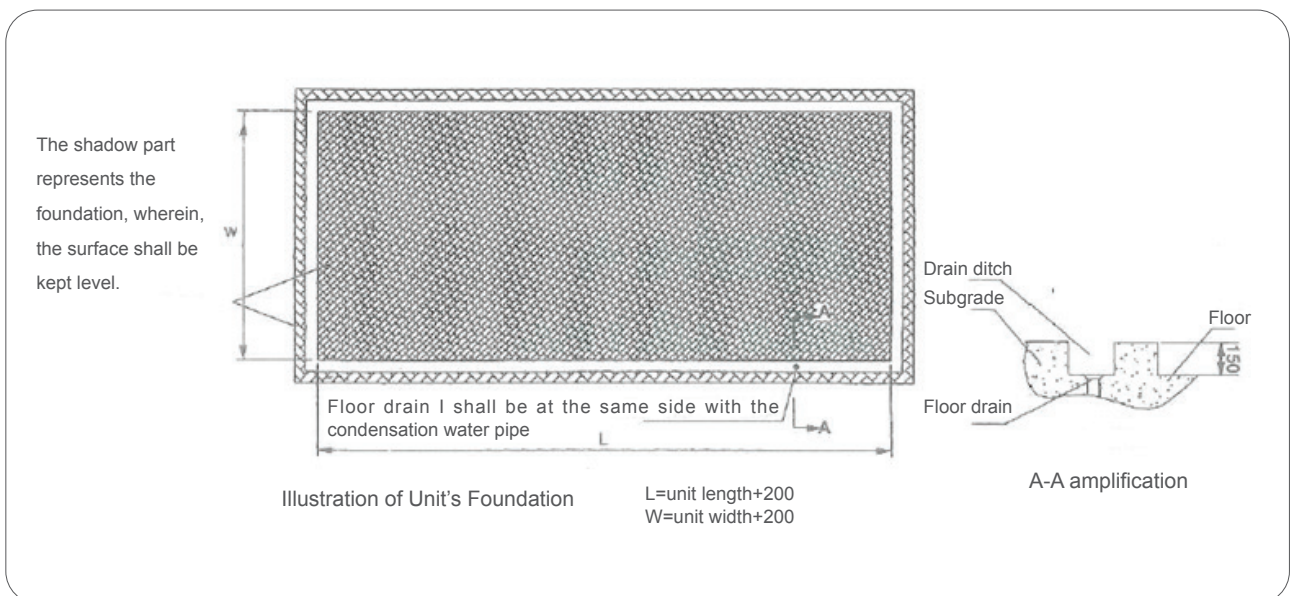
Note: Humidify the wet film during the direct drain mode

## Unit Installation



Where  $H$  = Excessive pressure inside the unit ( $\text{mmH}_2\text{O}$ ) +20  
 Negative pressure inside the unit = Pressure of returned air + Filter resistance + Resistance of coil pipe

- A/C units in all structural types shall be installed on a level foundation.
- The periphery unit, especially the one at the side of the overhaul gate --between the piping unit and the fan, together with the motor-- shall be provided with enough space for routine inspections and periodic maintenance of the unit.
- The condensation water outlet must be connected first with a "U"-shaped drain pipe, before it is connected to the external pipes.
- When connecting the water inlet and outlet pipes of the coil pipe, you are required to apply a balanced force, instead of a violent force, to avoid damaging the coil pipe.
- The Motor of the A/C unit shall be connected to the power supply with an overload and grounding protection.
- A flexible connection shall be applied in connecting the A/C unit with an external air pipe to avoid vibration transmission.
- We can provide a special water seal to guarantee the smooth drain of the unit; should there be no unit foundation on site or the foundation is not high enough for the U-shaped water seal to be applied.



## Unit Operation

- Before running the unit, check the valves of the water passages and air passages every time, to ensure a normal operating state.
- Regularly check the connections, operations, and transmissions of the moving parts, such as, the fan and motor; adjust as needed.
- Clean the primary filter with clean water or a cleaning agent -- according to its pollution degree; Clean as needed, based on the application environment.
- Clean or replace the intermediate filter when resistance increases to twice the initial resistance.
- Drain the water inside the coil pipe of the unit which is not used during the winter; keep the water, inside the coil pipe, flowing and close the outside air valve, if the unit is temporarily shut down in winter, to avoid freezing the coil pipe. For long-term shutdown, drain the water inside the coil pipe.
- Both hot and cold water shall be clean and softened water. Remove the water scale from the coil pipe by chemical methods; and dirt on the fin surface with compressed air or water, for every two-year operation of the unit.



Carrier improves the world around us; Carrier improves people's lives; our products and services improve building performance; our culture of improvement will not allow us to rest when it comes to the environment.



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