

**VAVCO (Smart Cooling & Solution)**
**Model : TVC...AS4**
*single comp.*
**75-1**
**90-1**
**100-1**
**120-1**
**Refrigerant**

Type	R407C					
<b>Cooling</b>						
Cooling Capacity	•	Kw	218.2	258.3	298.6	352.2
COP	•		3.60	3.83	3.79	3.73
Sound pressure	••	db(A)	81	79	82	81
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	1	1	1	1
Type	Semi Hermetic Screw					
Capacity Control		%	25~100	25~100	35~100	25~100
		steps	4	4	4	4
Absorb power		Kw	60.6	67.5	78.8	94.4
Comp. total current	•••	A	102.8	116.7	137.3	165.2
<b>Fans</b>						
Quantity		n°	6	6	8	8
Type	Axial fan					
Total Air flow	••••	m <sup>3</sup> /h	105,060	105,060	140,080	140,080
Total Power consumption		kw	8.33	8.33	11.11	11.11
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	1/1	1/1	1/1	1/1
Type	Shell&Tube					
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	37.53	44.43	51.36	60.58
Water in/out temp.		°C	12 /7			
Pressure drop		kpa	55	57	54	54
<b>Dimenssion and Weight</b>						
Length		mm	3400	3400	4400	4400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	3120	3570	4180	4470
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			


**Screw**
**Air Cooled Chiller**


- Ambient air 35 °C : User side exchanger inlet/outlet water 12-7 °C
- sound pressure levels refers to a distance of 10 meters from the unit in free field conditions.
- Ambient air 35 °C : Full load capacity steps 100%
- Ambient air 35 °C , sea level.

Max allowable working is 42 °C Ambient air

## VAVCO (Smart Cooling & Solution)

Model : TVC...AS4

single comp.

140-1

150-1

160-1

180-1

### Refrigerant

Type	R407C					
<b>Cooling</b>						
Cooling Capacity	•	Kw	416.7	440.0	486.8	542.5
COP	•		3.81	3.81	3.79	3.78
Sound pressure	••	db(A)	80	82	83	82
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	1	1	1	1
Type	Semi Hermetic Screw					
Capacity Control		%	25~100	35~100	25~100	35~100
		steps	4	4	4	4
Absorb power		Kw	109.4	115.5	128.5	143.5
Comp. total current	•••	A	186.6	198.1	218.3	246.9
<b>Fans</b>						
Quantity		n°	10	10	12	12
Type	Axial fan					
Total Air flow	••••	m <sup>3</sup> /h	175,100	175,100	210,120	210,120
Total Power consumption		kw	13.89	13.89	16.67	16.67
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	1/1	1/1	1/1	1/1
Type	Shell&Tube					
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	71.67	75.68	83.73	93.31
Water in/out temp.		°C	12 / 7			
Pressure drop		kpa	55	54	55	55
<b>Dimenssion and Weight</b>						
Length		mm	5400	5400	6400	6400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	5120	5205	6070	6420
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			

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Screw

Air Cooled Chiller



AC



**VAVCO (Smart Cooling & Solution)**

Model : TVC...AS4

single comp.

210-1

230-1

235-1

280-1

**Refrigerant**

Type	R407C					
<b>Cooling</b>						
Cooling Capacity	•	Kw	631.2	693.2	743.8	830.1
COP	•		3.82	3.82	3.85	3.85
Sound pressure	••	db(A)	79	80	82	84
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	1	1	1	1
Type	Semi Hermetic Screw					
Capacity Control		%	35~100	30~100	30~100	35~100
		steps	4	4	4	4
Absorb power		Kw	165.3	181.5	193.4	215.7
Comp. total current	•••	A	284.8	304.2	336.5	376.2
<b>Fans</b>						
Quantity		n°	16	16	18	20
Type	Axial fan					
Total Air flow	••••	m <sup>3</sup> /h	280,160	280,160	315,180	350,200
Total Power consumption		kw	22.22	22.22	25.00	27.78
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	1/1	1/1	1/1	1/1
Type	Shell&Tube					
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	108.57	119.23	127.93	142.78
Water in/out temp.		°C	12 / 7			
Pressure drop		kpa	55	56	54	54
<b>Dimenssion and Weight</b>						
Length		mm	8400	8400	9400	10400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	7990	8350	8940	9830
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			



Screw

Air Cooled Chiller



AC



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## VAVCO (Smart Cooling & Solution)

Model : TVC...AS4

2 comp.

110-2

160-2

180-2

200-2

### Refrigerant

Type		R407C				
<b>Cooling</b>						
Cooling Capacity	•	Kw	292.4	399.6	516.6	597.2
COP	•		3.61	3.61	3.83	3.79
Sound pressure	••	db(A)	83	85	85	86
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	2	2	2	2
Type		Semi Hermetic Screw				
Capacity Control		%	16.5~100	17.5~100	12.5~100	17.5~100
		steps	6	8	8	8
Absorb power		Kw	81.0	110.6	135.0	157.6
Comp. total current	•••	A	141.4	188.4	233.4	274.6
<b>Fans</b>						
Quantity		n°	8	10	12	14
Type		Axial fan				
Total Air flow	••••	m <sup>3</sup> /h	140,080	175,100	210,120	245,140
Total Power consumption		kw	11.11	13.89	16.67	19.45
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	1/1	1/1	1/1	1/1
Type		Shell&Tube				
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	50.29	68.73	88.86	102.72
Water in/out temp.		°C	12 / 7			
Pressure drop		kpa	57	57	58	59
<b>Dimenssion and Weight</b>						
Length		mm	4400	5400	6400	7400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	4070	5030	5990	6980
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			

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Screw

Air Cooled Chiller



AC



## VAVCO (Smart Cooling & Solution)

Model : TVC...AS4

2 comp.

240-2

280-2

325-2

350-2

### Refrigerant

Type		R407C				
<b>Cooling</b>						
Cooling Capacity	•	Kw	704.4	833.4	973.6	1,037.4
COP	•		3.73	3.81	3.79	3.81
Sound pressure	••	db(A)	82	85	82	86
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	2	2	2	2
Type		Semi Hermetic Screw				
Capacity Control		%	12.5~100	12.5~100	12.5~100	17.5~100
		steps	8	8	8	8
Absorb power		Kw	188.8	218.8	257.0	272.4
Comp. total current	•••	A	330.4	373.2	436.6	461.0
<b>Fans</b>						
Quantity		n°	16	20	22	24
Type		Axial fan				
Total Air flow	••••	m <sup>3</sup> /h	280,160	350,200	385,220	420,240
Total Power consumption		kw	22.22	27.78	30.56	33.34
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	1/2	1/2	1/2	1/2
Type		Shell&Tube				
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	121.16	143.34	167.46	178.43
Water in/out temp.		°C	12 / 7			
Pressure drop		kpa	55	57	60	60
<b>Dimenssion and Weight</b>						
Length		mm	8400	10400	11400	12400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	7980	9980	10870	11350
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			



Screw

Air Cooled Chiller



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## VAVCO (Smart Cooling & Solution)

Model : TVC...AS4

2 comp.

365-2

415-2

460-2

470-2

### Refrigerant

Type		R407C				
<b>Cooling</b>						
Cooling Capacity	•	Kw	1,085.0	1,262.4	1,386.4	1,487.6
COP	•		3.78	3.82	3.82	3.85
Sound pressure	••	db(A)	86	85	84	87
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	2	2	2	2
Type		Semi Hermetic Screw				
Capacity Control		%	17.5~100	17.5~100	15~100	15~100
		steps	8	8	8	8
Absorb power		Kw	287.0	330.6	363.0	386.8
Comp. total current	•••	A	493.8	569.6	608.4	673.0
<b>Fans</b>						
Quantity		n°	24	28	32	36
Type		Axial fan				
Total Air flow	••••	m <sup>3</sup> /h	420,240	490,280	560,320	630,360
Total Power consumption		kw	33.34	38.89	44.45	50.00
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	1/2	2/2	2/2	2/2
Type		Shell&Tube				
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	186.62	217.13	238.46	255.87
Water in/out temp.		°C	12 / 7			
Pressure drop		kpa	60	58	59	61
<b>Dimenssion and Weight</b>						
Length		mm	12400	14400	16400	18400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	11650	13700	15650	17450
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			

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Screw

Air Cooled Chiller



AC



**VAVCO (Smart Cooling & Solution)**

Model : TVC...AS4

4 comp.

365-4

430-4

485-4

565-4

**Refrigerant**

Type	R407C					
<b>Cooling</b>						
Cooling Capacity	•	Kw	1,092.0	1,305.2	1,408.8	1,666.8
COP	•		3.85	3.79	3.73	3.81
Sound pressure	••	db(A)	90	92	93	92
<b>Heating</b>						
Heating Capacity		Kw	-	-	-	-
COP			-	-	-	-
<b>Compressor</b>						
Quantity		n°	4	4	4	4
Type	Semi Hermetic Screw					
Capacity Control		%	8.25~100	8.25~100	6.25~100	6.25~100
		steps	16	16	16	16
Absorb power		Kw	284.0	344.8	377.6	437.6
Comp. total current	•••	A	488.8	598.4	660.8	746.4
<b>Fans</b>						
Quantity		n°	24	32	32	40
Type	Axial fan					
Total Air flow	••••	m <sup>3</sup> /h	420,240	560,320	560,320	700,400
Total Power consumption		kw	33.34	44.45	44.45	55.56
<b>User side exchanger</b>						
Quantity/Circuit		n°/n°	2 /4	2 /4	2 /4	2 /4
Type	Shell&Tube					
Working rang temp.		°C	4 - 18			
Water flow rate		m <sup>3</sup> /h	187.82	224.49	242.31	286.69
Water in/out temp.		°C	12 /7			
Pressure drop		kpa	61	60	62	62
<b>Dimenssion and Weight</b>						
Length		mm	12400	16400	16400	20400
Width		mm	2280	2280	2280	2280
Height		mm	2500	2500	2500	2500
Weight		Kg	11650	15550	15980	19580
<b>Electrical data</b>						
power supply		v/ph/Hz	380/3~ + N/50			



Screw

Air Cooled Chiller



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