

With Freon (R-22) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		CWCR-01-HB	CWCR-02-HB	CWCR-03-HB	CWCR-04-HB
Nominal Cooling Capacity					
At Evap / Cond temp: 2 / 40 deg. C	KW	93	129.4	184.9	247.3
	TR	26.46	36.81	52.60	70.36
Power Input	KW	23.20	31.3	43.6	57.8
COP		4.01	4.13	4.24	4.28
IKW	KW/TR	0.88	0.85	0.83	0.82
COMPRESSOR					
Compressor Type		Semi-Hermatic Screw			
Compressor Model		RC2-100B	RC2-140B	RC2-200B	RC2-260B
Compressor Qty	Nos.	1	1	1	1
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)			
Unit capacity reduction steps in %		33,66,100	33,66,100	25,50,75,100	25,50,75,100
Oil Type		HBR-B10	HBR-B10	HBR-B10	HBR-B10
Oil Charge / Compr (Ltr.)	Ltrs	7L	7L	8L	14L
Sound Level at 1mtr Distance	dB (A)	73.1	73.7	78.4	79.2
Power Supply		380-420 V/3 Ph, 50Hz, AC			
Nominal HP	HP	31	41	58	75
EVAPORATOR					
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant			
Evaporator Model		FMT-33TR	FMT-46TR	FMT-65TR	FMT-87TR
Evaporator Qty	Nos.	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	2	2	2	2
Tube Details	mm	12.7	12.7	12.7	12.7
Water Connection Size In/Out	Inch	2.5" NB	3" NB	3" NB	4" NB
Water Flow Rate	LPM	315	418	576	754
CONDENSER					
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26 Fins Per Inch			
Condenser Model		FMT-35TR	FMT-50TR	FMT-70TR	FMT-90TR
Condenser Qty	Nos.	1	1	1	1
No. Of Pass (Water Side)	Nos.	2	2	2	2
Tube Details	mm	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	2.5" NB	2.5" NB	3" NB	3" NB
Water Flow Rate	LPM	380	529	756	1012
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5
ECONOMISER					
Type		Shell & Tube Dx type			
Capacity	kW	8.37	11.64	16.64	22.25
CONTROL PANEL					
Starter Type		Star-Delta starter panel with optional choice of soft starter			
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control			
Make		Schneider			
UNIT DIMENSION & WEIGHTS					
Length	mm	2760	2760	2760	3050
Width	mm	860	860	950	950
Height	mm	1700	1700	1800	1950
Refrigerant charge qty	Kg	25	32	42	50
Net Weight	Kg	680	700	775	850
Detailed Dimensions & GA Drawing On following Pages		10	10	10	10
Rating Conditions:-					
1).Condenser tube side fouling Factor= 0.000043 m2K/W					
2).Evaporator shell side fouling factor= 0.000043 m2.K/W					
3).Specifications are subject to change due to continuos product development.					

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With Freon (R-22) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		CWCR-05-HB	CWCR-06-HB	CWCR-07-HB	CWCR-08-HB
Nominal Cooling Capacity					
At Evap / Cond temp: 2 / 40 deg. C	KW	291.4	336.9	364.7	401.5
	TR	82.90	95.85	103.76	114.22
Power Input	KW	65.1	74.6	80.6	91.4
COP		4.48	4.52	4.52	4.39
IKW		0.79	0.78	0.78	0.80
COMPRESSOR					
Compressor Type		Semi-Hermatic Screw			
Compressor Model		RC2-300B	RC2-340B	RC2-370B	RC2-410B
Compressor Qty	Nos.	1	1	1	1
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)			
Unit capacity reduction steps in %		25,50,75,100	35,50,75,100	35,50,75,100	25,50,75,100
Oil Type		HBR-B10	HBR-B10	HBR-B10	HBR-B10
Oil Charge / Compr (Ltr.)	Ltrs	16L	16L	16L	15L
Sound Level at 1mtr Distance	dB (A)	79.6	80.4	81.5	83.1
Power Supply		380-420 V/3 Ph, 50Hz, AC			
Nominal HP	HP	89	101	108	121
EVAPORATOR					
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulance to the refrigerant			
Evaporator Model		FMT-103TR	FMT-119TR	FMT-129TR	FMT-142TR
Evaporator Qty	Nos.	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	2	2	4	4
Tube Details	mm	12.7	12.7	19	19
Water Connection Size In/Out	Inch	4" NB	4" NB	4" NB	4" NB
Water Flow Rate	LPM	879	1008	1088	1192
CONDENSER					
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch			
Condenser Model		FMT-110TR	FMT-125TR	FMT-135TR	FMT-150TR
Condenser Qty	Nos.	1	1	1	1
No. Of Pass (Water Side)	Nos.	2	2	4	4
Tube Details	mm	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	3" NB	4" NB	4" NB	4" NB
Water Flow Rate	LPM	1192	1378	1492	1643
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5
ECONOMISER					
Type		Shell & Tube Dx type			
Capacity	kW	26.22	30.32	32.81	36.13
CONTROL PANEL					
Starter Type		Star-Delta starter panel with optional choice of soft starter			
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control			
Make		Schneider			
UNIT DIMENSION & WEIGHTS					
Length	mm	3050	3050	3840	3840
Width	mm	1010	1010	1020	1020
Height	mm	2050	2050	2180	2180
Refrigerant charge qty	Kg	44	48	56	65
Net Weight	Kg	950	1050	2120	2200
Detailed Dimensions & GA Drawing On following Pages		10	10	10	10

Rating Conditions:-

- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuos product development.

With Freon (R-22) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		CWCR-09-2HB	CWCR-10-2HB	CWCR-11-2HB	CWCR-12-2HB	CWCR-13-2HB
Nominal Cooling Capacity						
At Evap / Cond temp: 2 / 40 deg. C	KW	494.6	582.8	673.8	729.4	803
	TR	140.71	165.80	191.69	207.51	228.45
Power Input	KW	115.6	130.2	149.2	161.2	182.8
COP		4.28	4.48	4.52	4.52	4.39
IKW		0.82	0.79	0.78	0.78	0.80
COMPRESSOR						
Compressor Type		Semi-Hermatic Screw				
Compressor Model		RC2-260B	RC2-300B	RC2-340B	RC2-370B	RC2-410B
Compressor Qty	Nos.	2	2	2	2	2
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)				
Unit capacity reduction steps in %		25,50,75,100	25,50,75,100	35,50,75,100	35,50,75,100	25,50,75,100
Oil Type		HBR-B10	HBR-B10	HBR-B10	HBR-B10	HBR-B10
Oil Charge / Compr (Ltr.)	Ltrs	14L X 2	16L X 2	16L X 2	16L X 2	15L X 2
Sound Level at 1mtr Distance	dB (A)	79.2	79.6	80.4	81.5	83.1
Power Supply		380-420 V/3 Ph, 50Hz, AC				
Nominal HP	HP	75 X 2	89 X 2	101 X 2	108 X 2	121 X 2
EVAPORATOR						
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant				
Evaporator Model		FMT-174TR-2C	FMT-205TR-2C	FMT-237TR-2C	FMT-257TR-2C	FMT-283TR-2C
Evaporator Qty	Nos.	1	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	1	1	1	1	1
Tube Details	mm	19	19	19	19	19
Water Connection Size In/Out	Inch	5" NB	5" NB	6" NB	6" NB	6" NB
Water Flow Rate	LPM	1457	1708	1967	2125	2334
CONDENSER						
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch				
Condenser Model		FMT-90TR X 2	FMT-110TR X 2	FMT-125TR X 2	FMT-135TR X 2	FMT-150TR X 2
Condenser Qty	Nos.	2	2	2	2	2
No. Of Pass (Water Side)	Nos.	2	2	2	4	4
Tube Details	mm	19.05	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	3" NB	3" NB	4" NB	4" NB	4" NB
Water Flow Rate	LPM	1012 X 2	1192 X 2	1378 X 2	1492 X 2	1643 X 2
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5	35.5
ECONOMISER						
Type		Shell & Tube Dx type				
Capacity	kW	22.25 X 2	26.22 X 2	30.32 X 2	32.81 X 2	36.13X 2
CONTROL PANEL						
Starter Type		Star-Delta starter panel with optional choice of soft starter				
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control				
Make		Schneider				
UNIT DIMENSION & WEIGHTS						
Length	mm	3822	3822	3822	4446	4446
Width	mm	1574	1674	1674	1974	1974
Height	mm	1900	2100	2100	2338	2438
Refrigerant charge qty	Kg	50 X 2	44 X 2	48 X 2	56 X 2	65 X 2
Net Weight	Kg	1500	1700	1800	3800	4200
Detailed Dimensions & GA Drawing On following Pages		14	14	14	14	14

Rating Conditions:-

- 1). Condenser tube side fouling Factor= 0.000043 m2K/W
- 2). Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3). Specifications are subject to change due to continuous product development.

With Freon (R-407C) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		BWCR-01-HB	BWCR-02-HB	BWCR-03-HB	BWCR-04-HB
Nominal Cooling Capacity					
At Evap / Cond temp: 2 / 40 deg. C	KW	90.2	120.3	174.4	231.9
	TR	25.66	34.22	49.62	65.97
Power Input	KW	23.20	30.4	42.5	56.4
COP		3.89	3.96	4.10	4.11
IKW		0.90	0.89	0.86	0.85
COMPRESSOR					
Compressor Type		Semi-Hermatic Screw			
Compressor Model		RC2-100B	RC2-140B	RC2-200B	RC2-260B
Compressor Qty	Nos.	1	1	1	1
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)			
Unit capacity reduction steps in %		33,66,100	33,66,100	25,50,75,100	25,50,75,100
Oil Type		HBR-B05	HBR-B05	HBR-B05	HBR-B05
Oil Charge / Compr (Ltr.)	Ltrs	7L	7L	8L	14L
Sound Level at 1mtr Distance	dB (A)	73.1	73.7	78.4	79.2
Power Supply		380-420 V/3 Ph, 50Hz, AC			
Nominal HP	HP	31	41	58	75
EVAPORATOR					
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant			
Evaporator Model		FMT-33TR	FMT-46TR	FMT-65TR	FMT-87TR
Evaporator Qty	Nos.	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	2	2	2	2
Tube Details	mm	12.7	12.7	12.7	12.7
Water Connection Size In/Out	Inch	2.5" NB	3" NB	3" NB	4" NB
Water Flow Rate	LPM	307	392	546	710
CONDENSER					
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch			
Condenser Model		FMT-35TR	FMT-50TR	FMT-70TR	FMT-90TR
Condenser Qty	Nos.	1	1	1	1
No. Of Pass (Water Side)	Nos.	2	2	2	2
Tube Details	mm	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	2.5" NB	2.5" NB	3" NB	3" NB
Water Flow Rate	LPM	369	492	714	949
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5
ECONOMISER					
Type		Shell & Tube Dx type			
Capacity	kW	6.43	8.57	12.43	16.52
CONTROL PANEL					
Starter Type		Star-Delta starter panel with optional choice of soft starter			
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control			
Make		Schneider			
UNIT DIMENSION & WEIGHTS					
Length	mm	2760	2760	2760	3050
Width	mm	860	860	950	950
Height	mm	1700	1700	1800	1950
Refrigerant charge qty	Kg	25	32	42	50
Net Weight	Kg	680	700	775	850
Detailed Dimensions & GA Drawing On following Pages		10	10	10	10

Rating Conditions:-

- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuos product development.

With Freon (R-407C) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		BWCR-05-HB	BWCR-06-HB	BWCR-07-HB	BWCR-08-HB
Nominal Cooling Capacity					
At Evap / Cond temp: 2 / 40 deg. C	KW	274.6	317.3	346.8	374.3
	TR	78.12	90.27	98.66	106.49
Power Input	KW	62.8	73.3	80.2	87.9
COP		4.37	4.33	4.32	4.26
IKW		0.80	0.81	0.81	0.83
COMPRESSOR					
Compressor Type		Semi-Hermatic Screw			
Compressor Model		RC2-300B	RC2-340B	RC2-370B	RC2-410B
Compressor Qty	Nos.	1	1	1	1
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)			
Unit capacity reduction steps in %		25,50,75,100	35,50,75,100	35,50,75,100	25,50,75,100
Oil Type		HBR-B05	HBR-B05	HBR-B05	HBR-B05
Oil Charge / Compr (Ltr.)	Ltrs	16L	16L	16L	15L
Sound Level at 1mtr Distance	dB (A)	79.6	80.4	81.5	83.1
Power Supply		380-420 V/3 Ph, 50Hz, AC			
Nominal HP	HP	89	101	108	121
EVAPORATOR					
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant			
Evaporator Model		FMT-103TR	FMT-119TR	FMT-129TR	FMT-142TR
Evaporator Qty	Nos.	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	2	2	4	4
Tube Details	mm	12.7	12.7	19	19
Water Connection Size In/Out	Inch	4" NB	4" NB	4" NB	4" NB
Water Flow Rate	LPM	831	953	1037	1115
CONDENSER					
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch			
Condenser Model		FMT-110TR	FMT-125TR	FMT-135TR	FMT-150TR
Condenser Qty	Nos.	1	1	1	1
No. Of Pass (Water Side)	Nos.	2	2	4	4
Tube Details	mm	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	3" NB	4" NB	4" NB	4" NB
Water Flow Rate	LPM	1123	1298	1419	1531
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5
ECONOMISER					
Type		Shell & Tube Dx type			
Capacity	kW	19.56	22.6	24.7	26.66
CONTROL PANEL					
Starter Type		Star-Delta starter panel with optional choice of soft starter			
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control			
Make		Schneider			
UNIT DIMENSION & WEIGHTS					
Length	mm	3050	3050	3840	3840
Width	mm	1010	1010	1020	1020
Height	mm	2050	2050	2180	2180
Refrigerant charge qty	Kg	44	48	56	65
Net Weight	Kg	950	1050	2120	2200
Detailed Dimensions & GA Drawing On following Pages		10	10	10	10

Rating Conditions:-

- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuous product development.

With Freon (R-407C) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		BWCR-09-2HB	BWCR-10-2HB	BWCR-11-2HB	BWCR-12-2HB	BWCR-13-2HB
Nominal Cooling Capacity						
At Evap / Cond temp: 2 / 40 deg. C	KW	463.8	549.2	634.6	693.6	748.6
	TR	131.95	156.24	180.54	197.33	212.97
Power Input	KW	112.8	125.6	146.6	160.4	175.8
COP		4.11	4.37	4.33	4.32	4.26
IKW		0.85	0.80	0.81	0.81	0.83
COMPRESSOR						
Compressor Type		Semi-Hermatic Screw				
Compressor Model		RC2-260B	RC2-300B	RC2-340B	RC2-370B	RC2-410B
Compressor Qty	Nos.	2	2	2	2	2
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)				
Unit capacity reduction steps in %		25,50,75,100	25,50,75,100	35,50,75,100	35,50,75,100	25,50,75,100
Oil Type		HBR-B05	HBR-B05	HBR-B05	HBR-B05	HBR-B05
Oil Charge / Compr (Ltr.)	Ltrs	14L X 2	16L X 2	16L X 2	16L X 2	15L X 2
Sound Level at 1mtr Distance	dB (A)	79.2	79.6	80.4	81.5	83.1
Power Supply		380-420 V/3 Ph, 50Hz, AC				
Nominal HP	HP	75 X 2	89 X 2	101 X 2	108 X 2	121 X 2
EVAPORATOR						
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant				
Evaporator Model		FMT-174TR-2C	FMT-205TR-2C	FMT-237TR-2C	FMT-257TR-2C	FMT-283TR-2C
Evaporator Qty	Nos.	1	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	1	1	1	1	1
Tube Details	mm	19	19	19	19	19
Water Connection Size In/Out	Inch	5" NB	5" NB	6" NB	6" NB	6" NB
Water Flow Rate	LPM	1369	1612	1855	2023	2180
CONDENSER						
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch				
Condenser Model		FMT-90TR X 2	FMT-110TR X 2	FMT-125TR X 2	FMT-135TR X 2	FMT-150TR X 2
Condenser Qty	Nos.	2	2	2	2	2
No. Of Pass (Water Side)	Nos.	2	2	2	4	4
Tube Details	mm	19.05	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	3" NB	3" NB	4" NB	4" NB	4" NB
Water Flow Rate	LPM	949 X 2	1123 X 2	1298 X 2	1419 X 2	1531 X 2
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5	35.5
ECONOMISER						
Type		Shell & Tube Dx type				
Capacity	kW	16.52 X 2	19.56 X 2	22.6 X 2	24.7 X 2	26.66 X 2
CONTROL PANEL						
Starter Type		Star-Delta starter panel with optional choice of soft starter				
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control				
Make		Schneider				
UNIT DIMENSION & WEIGHTS						
Length	mm	3822	3822	3822	4446	4446
Width	mm	1574	1674	1674	1974	1974
Height	mm	1900	2100	2100	2338	2438
Refrigerant charge qty	Kg	50 X 2	44 X 2	48 X 2	56 X 2	65 X 2
Net Weight	Kg	1500	1700	1800	3800	4200
Detailed Dimensions & GA Drawing On following Pages		14	14	14	14	14

Rating Conditions:-

- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuous product development.

With Freon (R-134A) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		AWCR-01-HB	AWCR-02-HB	AWCR-03-HB	AWCR-04-HB
Nominal Cooling Capacity					
At Evap / Cond temp: 2 / 40 deg. C	KW	61.8	86.4	124.9	163.6
At Evap / Cond temp: 2 / 40 deg. C	TR	17.58	24.58	35.53	46.54
Power Input	KW	15.30	20	28	37.2
COP		4.04	4.32	4.46	4.40
IKW		0.87	0.81	0.79	0.80
COMPRESSOR					
Compressor Type		Semi-Hermatic Screw			
Compressor Model		RC2-100A	RC2-140A	RC2-200A	RC2-260A
Compressor Qty	Nos.	1	1	1	1
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)			
Unit capacity reduction steps in %		33,66,100	33,66,100	25,50,75,100	25,50,75,100
Oil Type		HBR-B05	HBR-B05	HBR-B05	HBR-B05
Oil Charge / Compr (Ltr.)	Ltrs	7L	7L	8L	14L
Sound Level at 1mtr Distance	dB (A)	73.1	73.7	78.4	79.2
Power Supply		380-420 V/3 Ph, 50Hz, AC			
Nominal HP	HP	19	26	37	49
EVAPORATOR					
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulance to the refrigerant			
Evaporator Model		FMT-20TR	FMT-25TR	FMT-40TR	FMT-50TR
Evaporator Qty	Nos.	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	2	2	2	2
Tube Details	mm	12.7	12.7	12.7	12.7
Water Connection Size In/Out	Inch	2.5" NB	2.5" NB	3" NB	3" NB
Water Flow Rate	LPM	226	296	405	515
CONDENSER					
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch			
Condenser Model		FMT-25TR	FMT-30TR	FMT-40TR	FMT-50TR
Condenser Qty	Nos.	1	1	1	1
No. Of Pass (Water Side)	Nos.	2	2	2	2
Tube Details	mm	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	2.5" NB	2.5" NB	2.5" NB	3" NB
Water Flow Rate	LPM	253	353	511	669
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5
ECONOMISER					
Type		Shell & Tube Dx type			
Capacity	kW	7.3	10.2	14.74	19.31
CONTROL PANEL					
Starter Type		Star-Delta starter panel with optional choice of soft starter			
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control			
Make		Schneider			
UNIT DIMENSION & WEIGHTS					
Length	mm	2760	2760	2760	3050
Width	mm	860	860	950	950
Height	mm	1700	1700	1800	1950
Refrigerant charge qty	Kg	25	32	42	50
Net Weight	Kg	680	700	775	850
Detailed Dimensions & GA Drawing On following Pages		10	10	10	10

Rating Conditions:-

- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuous product development.

With Freon (R-134A) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

Description	Units	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		AWCR-05-HB	AWCR-06-HB	AWCR-07-HB	AWCR-08-HB
Nominal Cooling Capacity					
At Evap / Cond temp: 2 / 40 deg. C	KW	197.3	223.6	248.2	273.3
At Evap / Cond temp: 2 / 40 deg. C	TR	56.13	63.61	70.61	77.75
Power Input	KW	42.6	48.9	52.8	59.6
COP		4.63	4.57	4.70	4.59
IKW		0.76	0.77	0.75	0.77
COMPRESSOR					
Compressor Type		Semi-Hermatic Screw			
Compressor Model		RC2-300A	RC2-340A	RC2-370A	RC2-410A
Compressor Qty	Nos.	1	1	1	1
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)			
Unit capacity reduction steps in %		25,50,75,100	35,50,75,100	35,50,75,100	25,50,75,100
Oil Type		HBR-B05	HBR-B05	HBR-B05	HBR-B05
Oil Charge / Compr (Ltr.)	Ltrs	16L	16L	16L	15L
Sound Level at 1mtr Distance	dB (A)	79.6	80.4	81.5	83.1
Power Supply		380-420 V/3 Ph, 50Hz, AC			
Nominal HP	HP	56	64	70	78
EVAPORATOR					
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant			
Evaporator Model		FMT-60TR	FMT-65TR	FMT-75TR	FMT-80TR
Evaporator Qty	Nos.	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	2	2	4	4
Tube Details	mm	12.7	12.7	12.7	12.7
Water Connection Size In/Out	Inch	3" NB	3" NB	4" NB	4" NB
Water Flow Rate	LPM	611	686	756	828
CONDENSER					
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch			
Condenser Model		FMT-60TR	FMT-70TR	FMT-75TR	FMT-85TR
Condenser Qty	Nos.	1	1	1	1
No. Of Pass (Water Side)	Nos.	2	2	4	4
Tube Details	mm	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	3" NB	3" NB	3" NB	3" NB
Water Flow Rate	LPM	807	915	1015	1118
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5
ECONOMISER					
Type		Shell & Tube Dx type			
Capacity	kW	23.29	26.4	29.3	32.26
CONTROL PANEL					
Starter Type		Star-Delta starter panel with optional choice of soft starter			
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control			
Make		Schneider			
UNIT DIMENSION & WEIGHTS					
Length	mm	3050	3050	3840	3840
Width	mm	1010	1010	1020	1020
Height	mm	2050	2050	2180	2180
Refrigerant charge qty	Kg	44	48	56	65
Net Weight	Kg	950	1050	2120	2200
Detailed Dimensions & GA Drawing On following Pages		10	10	10	10

Rating Conditions:-

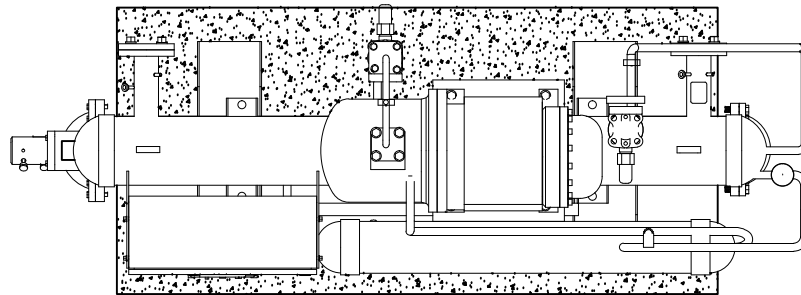
- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuous product development.

With Freon (R-134A) Refrigerant
FLAMINGO AIRCON SERIES WATER COOLED SCREW CHILLERS WITH HANBELL SEMI-HERMETIC SCREW COMPRESSORS

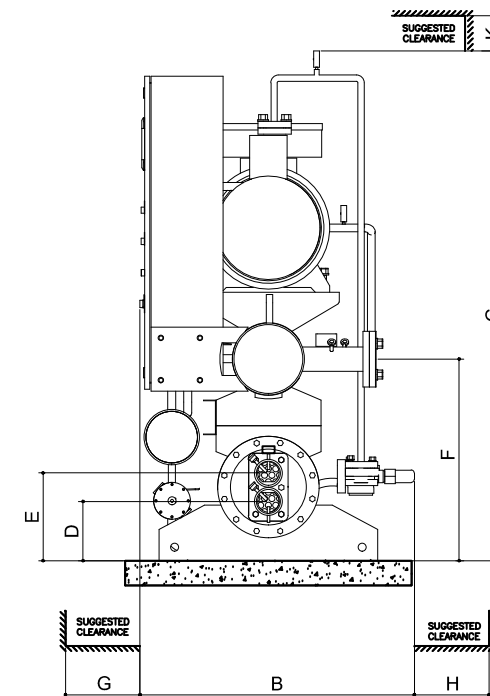
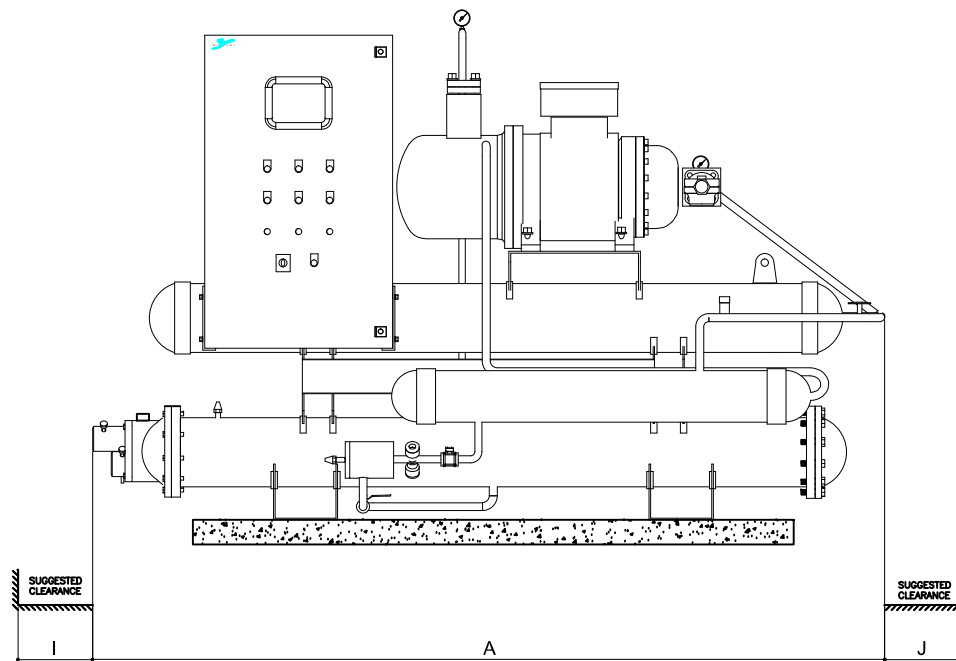
Description	Units	AIRCON	AIRCON	AIRCON	AIRCON	AIRCON
Unit Model		AWCR-09-2HB	AWCR-10-2HB	AWCR-11-2HB	AWCR-12-2HB	AWCR-13-2HB
Nominal Cooling Capacity						
At Evap / Cond temp: 2 / 40 deg. C	KW	327.2	394.6	447.2	496.4	546.6
At Evap / Cond temp: 2 / 40 deg. C	TR	93.09	112.26	127.23	141.22	155.50
Power Input	KW	74.4	85.2	97.8	105.6	119.2
COP		4.40	4.63	4.57	4.70	4.59
IKW		0.80	0.76	0.77	0.75	0.77
COMPRESSOR						
Compressor Type		Semi-Hermatic Screw				
Compressor Model		RC2-260A	RC2-300A	RC2-340A	RC2-370A	RC2-410A
Compressor Qty	Nos.	2	2	2	2	2
Compressor Make		Hanbell Precise Machinery (Made in Taiwan)				
Unit capacity reduction steps in %		25,50,75,100	25,50,75,100	35,50,75,100	35,50,75,100	25,50,75,100
Oil Type		HBR-B05	HBR-B05	HBR-B05	HBR-B05	HBR-B05
Oil Charge / Compr (Ltr.)	Ltrs	14L X 2	16L X 2	16L X 2	16L X 2	15L X 2
Sound Level at 1mtr Distance	dB (A)	79.2	79.6	80.4	81.5	83.1
Power Supply		380-420 V/3 Ph, 50Hz, AC				
Nominal HP	HP	49 X 2	56 X 2	64 X 2	70 X 2	78 X 2
EVAPORATOR						
Evaporator Type		Shell & Tube Direct Expansion Type With Mechanically Bonded Aluminium Star Turbulators Inserts for providing turbulence to the refrigerant				
Evaporator Model		FMT-95TR-2C	FMT-115TR-2C	FMT-130TR-2C	FMT-145TR-2C	FMT-155TR-2C
Evaporator Qty	Nos.	1	1	1	1	1
No. Of Pass (Refrigerant Side)	Nos.	1	1	1	1	1
Tube Details	mm	12.7	12.7	19	19	19
Water Connection Size In/Out	Inch	4" NB	4" NB	4" NB	5" NB	5" NB
Water Flow Rate	LPM	981	1173	1322	1462	1605
CONDENSER						
Condenser Type		Shell & Tube Type Condenser With Outer Finned Copper Tubes Having 26Fins Per Inch				
Condenser Model		FMT-50TR X 2	FMT-60TR X 2	FMT-70TR X 2	FMT-75TR X 2	FMT-85TR X 2
Condenser Qty	Nos.	2	2	2	2	2
No. Of Pass (Water Side)	Nos.	2	2	2	4	4
Tube Details	mm	19.05	19.05	19.05	19.05	19.05
Water Connection Size In/Out	Inch	3" NB	3" NB	3" NB	3" NB	3" NB
Water Flow Rate	LPM	669 X 2	807 X 2	915 X 2	1015 X 2	1118 X 2
Cooling Tower Water In Temp (Maximum)	Deg .C	32	32	32	32	32
Cooling Tower Water Out Temp (Maximum)	Deg .C	35.5	35.5	35.5	35.5	35.5
ECONOMISER						
Type		Shell & Tube Dx type				
Capacity	kW	19.31 X 2	23.29 X 2	26.4 X 2	29.3 X 2	32.26 X 2
CONTROL PANEL						
Starter Type		Star-Delta starter panel with optional choice of soft starter				
Microprocessor		PLC with optional choice of MCS Controls(USA) make microprocessor based control panel with step-less capacity control				
Make		Schneider				
UNIT DIMENSION & WEIGHTS						
Length	mm	3822	3822	3822	4446	4446
Width	mm	1574	1674	1674	1974	1974
Height	mm	1900	2100	2100	2338	2438
Refrigerant charge qty	Kg	50 X 2	44 X 2	48 X 2	56 X 2	65 X 2
Net Weight	Kg	1500	1700	1800	3800	4200
Detailed Dimensions & GA Drawing On following Pages		14	14	14	14	14

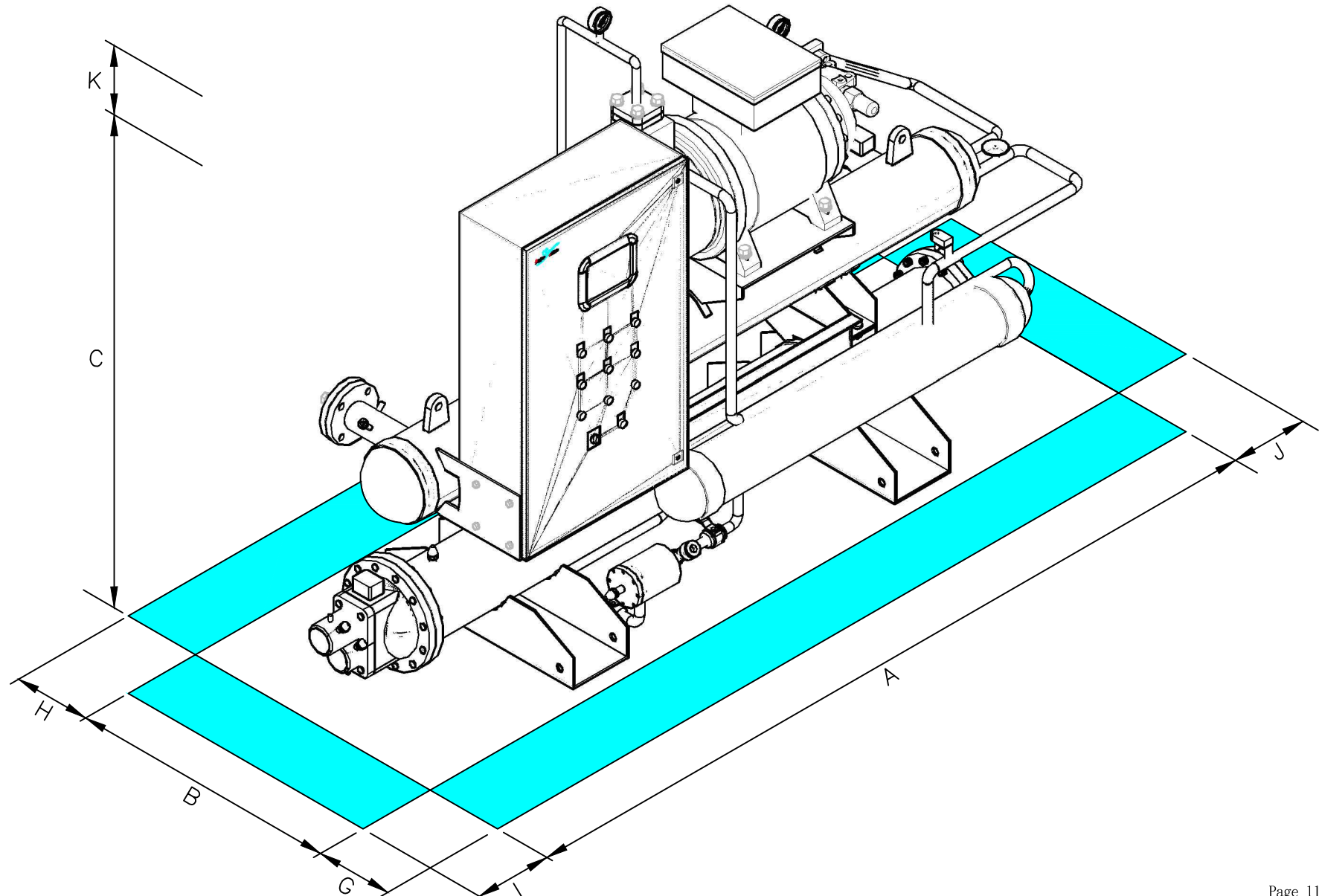
Rating Conditions:-

- 1).Condenser tube side fouling Factor= 0.000043 m2K/W
- 2).Evaporator shell side fouling factor= 0.000043 m2.K/W
- 3).Specifications are subject to change due to continuous product development.



dimensions & clearance												
MODEL	A	B	C	D	E	F	G	H	I	J	K	
AWCR-01-HB,BWCR-01-HB,CWCR-01-HB	2760	880	1700	190	300	680	1000	1000	1000	2280	300	
AWCR-02-HB,BWCR-02-HB,CWCR-02-HB	2760	880	1700	190	300	745	1000	1000	1000	2280	300	
AWCR-03-HB,BWCR-03-HB,CWCR-03-HB	2760	950	1800	240	350	800	1000	1000	1000	2280	300	
AWCR-04-HB,BWCR-04-HB,CWCR-04-HB	3050	950	1950	240	350	800	1000	1000	1000	2550	300	
AWCR-05-HB,BWCR-05-HB,CWCR-05-HB	3050	1010	2050	290	400	830	1000	1000	1000	2550	300	
AWCR-06-HB,BWCR-06-HB,CWCR-06-HB	3050	1010	2050	290	400	830	1000	1000	1000	2850	300	
AWCR-07-HB,BWCR-07-HB,CWCR-07-HB	3840	1020	2180	290	400	830	1000	1000	1000	3340	300	
AWCR-08-HB,BWCR-08-HB,CWCR-08-HB	3840	1020	2180	340	450	880	1000	1000	1000	3340	300	
Nomenclature												
A	End to End Length			G		Suggested Clearance						
B	End to End Width			H		Suggested Clearance						
C	End to End Height			I		Suggested Clearance						
D	OT Water Inlet Flange Center Distance from Base			J		Suggested Clearance						
E	OT Water Outlet Flange Center Distance from Base			K		Suggested Clearance						
F	Chilled Water Inlet/Outlet Center Distance from Base											

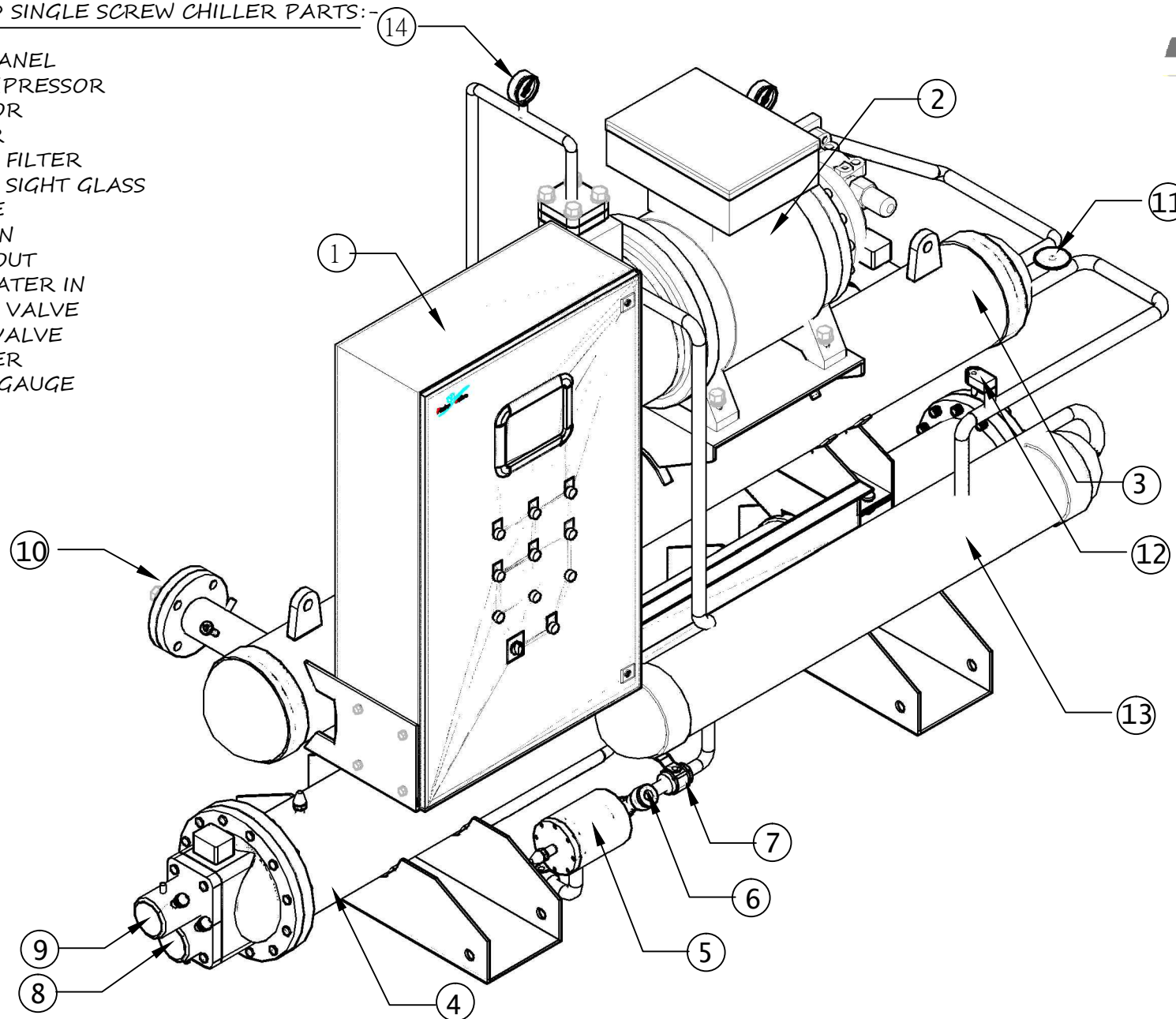




WATER COOLED SINGLE SCREW CHILLER PARTS:-

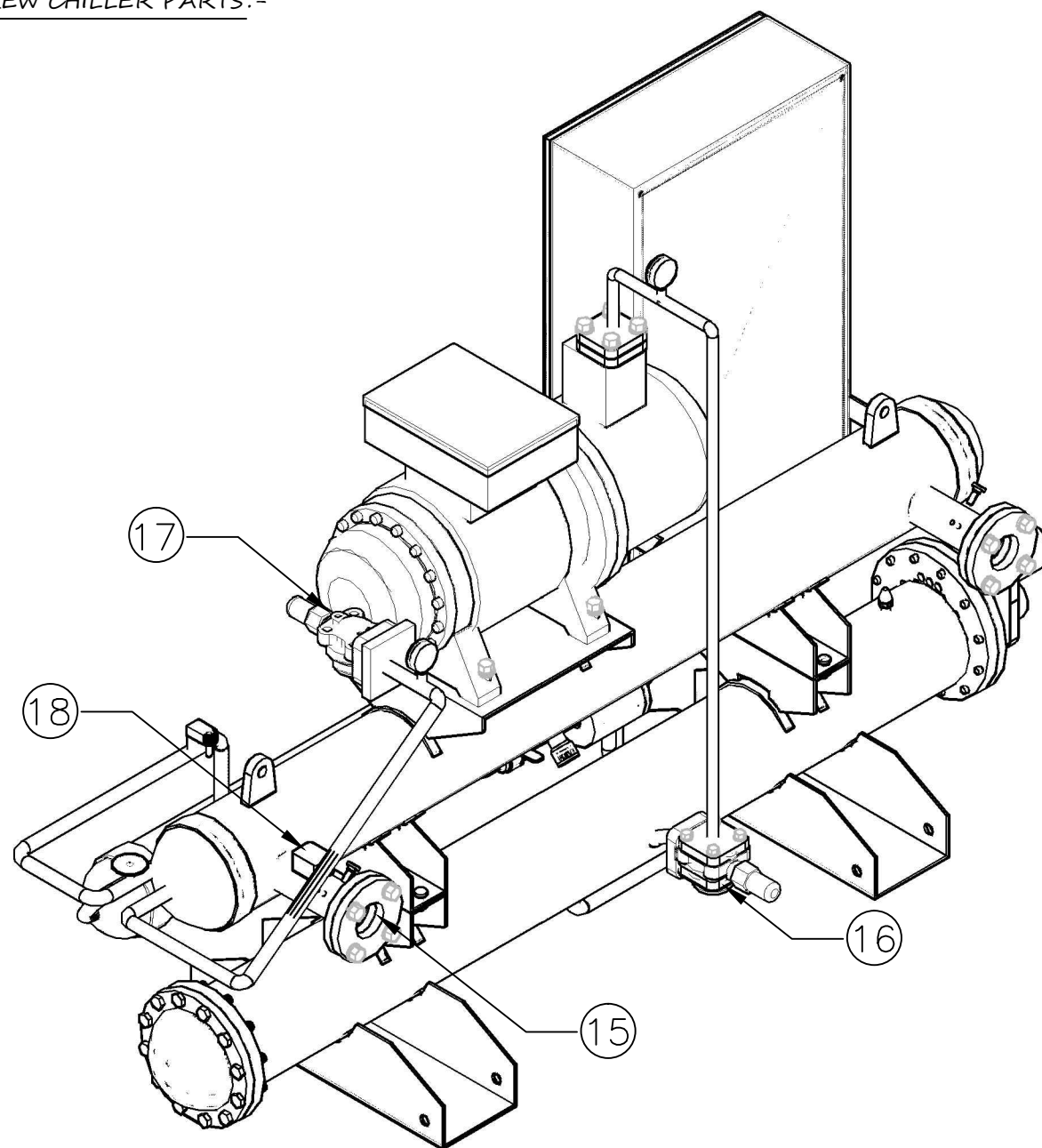


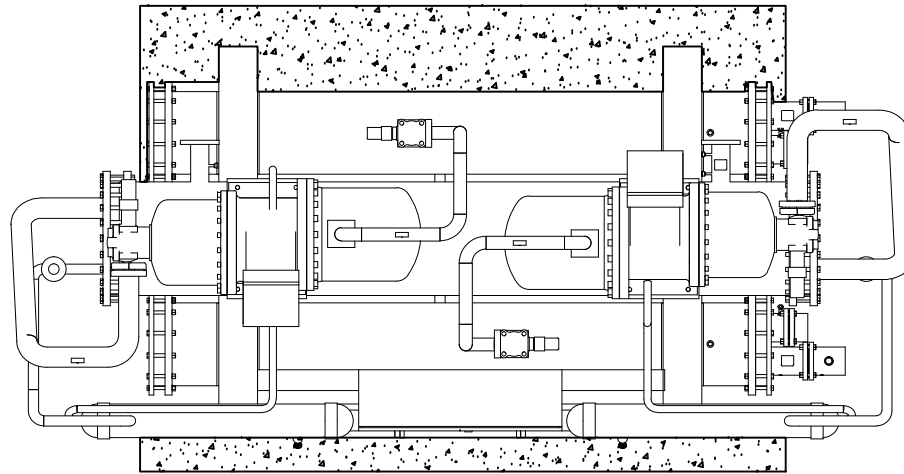
- 1). CONTROL PANEL
- 2). SCREW COMPRESSOR
- 3). EVAPORATOR
- 4). CONDENSER
- 5). LIQUID LINE FILTER
- 6). LIQUID LINE SIGHT GLASS
- 7). BALL VALVE
- 8). CT WATER IN
- 9). CT WATER OUT
- 10). CHILLED WATER IN
- 11). EXPANSION VALVE
- 12). SOLENOID VALVE
- 13). ECONOMIZER
- 14). PRESSURE GAUGE



WATER COOLED SINGLE SCREW CHILLER PARTS:-

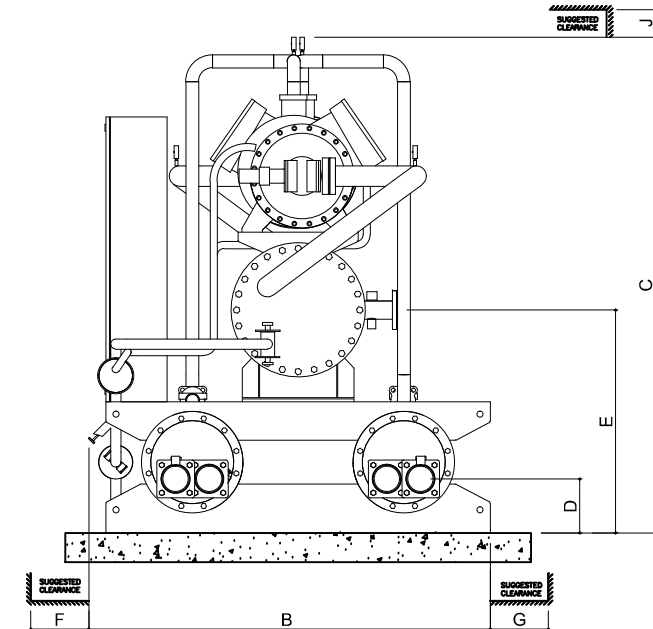
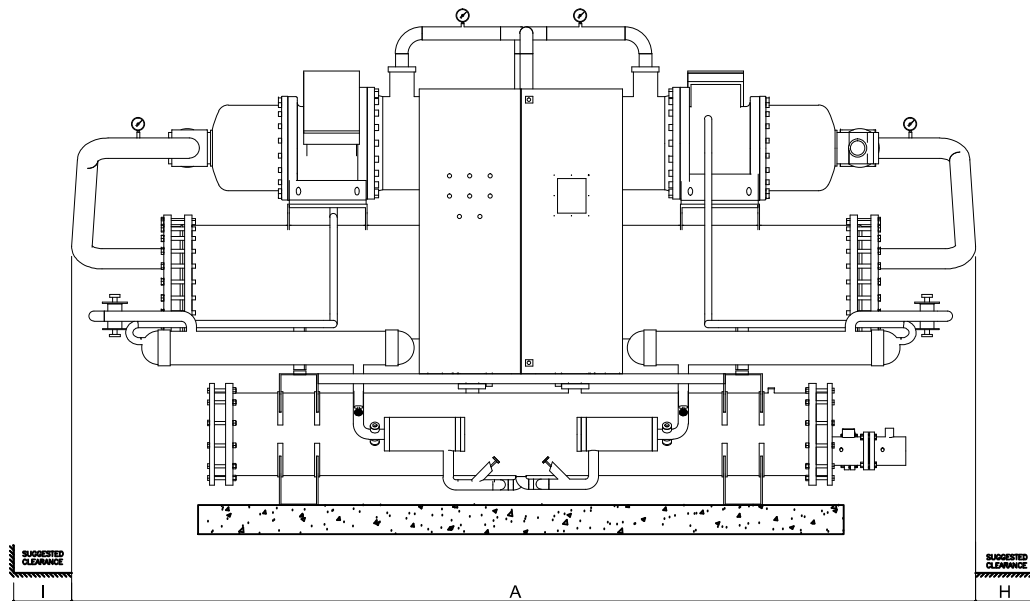
- 15). CHILLED WATER OUT
- 16). DISCHARGE VALVE
- 17). SUCTION VALVE
- 18). FLOW SWITCH

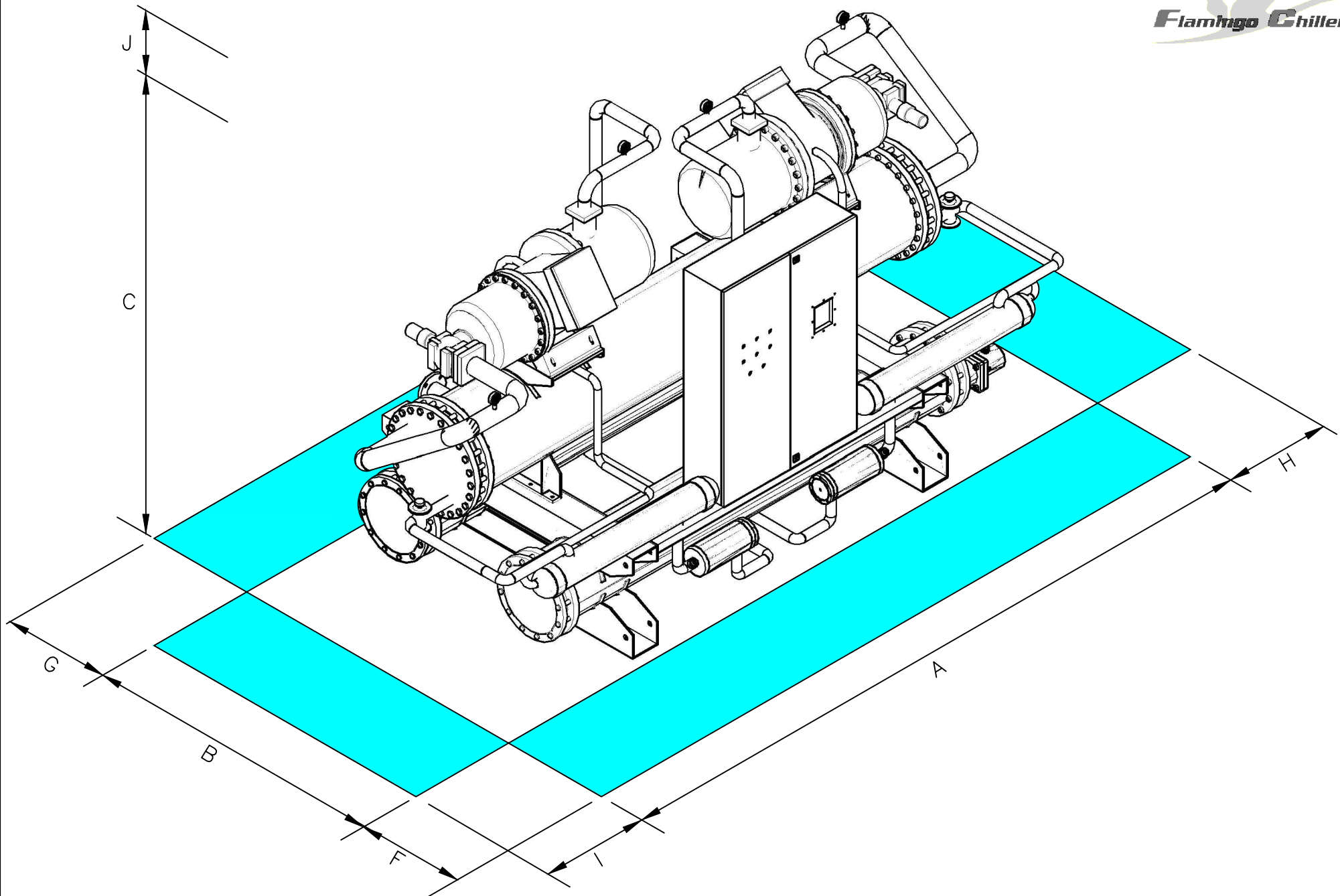




dimensions & clearance										
MODEL	A	B	C	D	E	F	G	H	I	J
AWCR-09-2HB,BWCR-09-2HB,CWCR-09-2HB	3822	1574	1900	215	1046	1000	1000	1000	2000	300
AWCR-10-2HB,BWCR-10-2HB,CWCR-10-2HB	3822	1674	2100	215	1046	1000	1000	1000	2000	300
AWCR-11-2HB,BWCR-11-2HB,CWCR-11-2HB	3822	1674	2100	215	1046	1000	1000	1000	2000	300
AWCR-12-2HB,BWCR-12-2HB,CWCR-12-2HB	4446	1974	2338	240	1046	1000	1000	1000	3000	300
AWCR-13-2HB,BWCR-13-2HB,CWCR-13-2HB	4446	1974	2438	265	1096	1000	1000	1000	3000	300

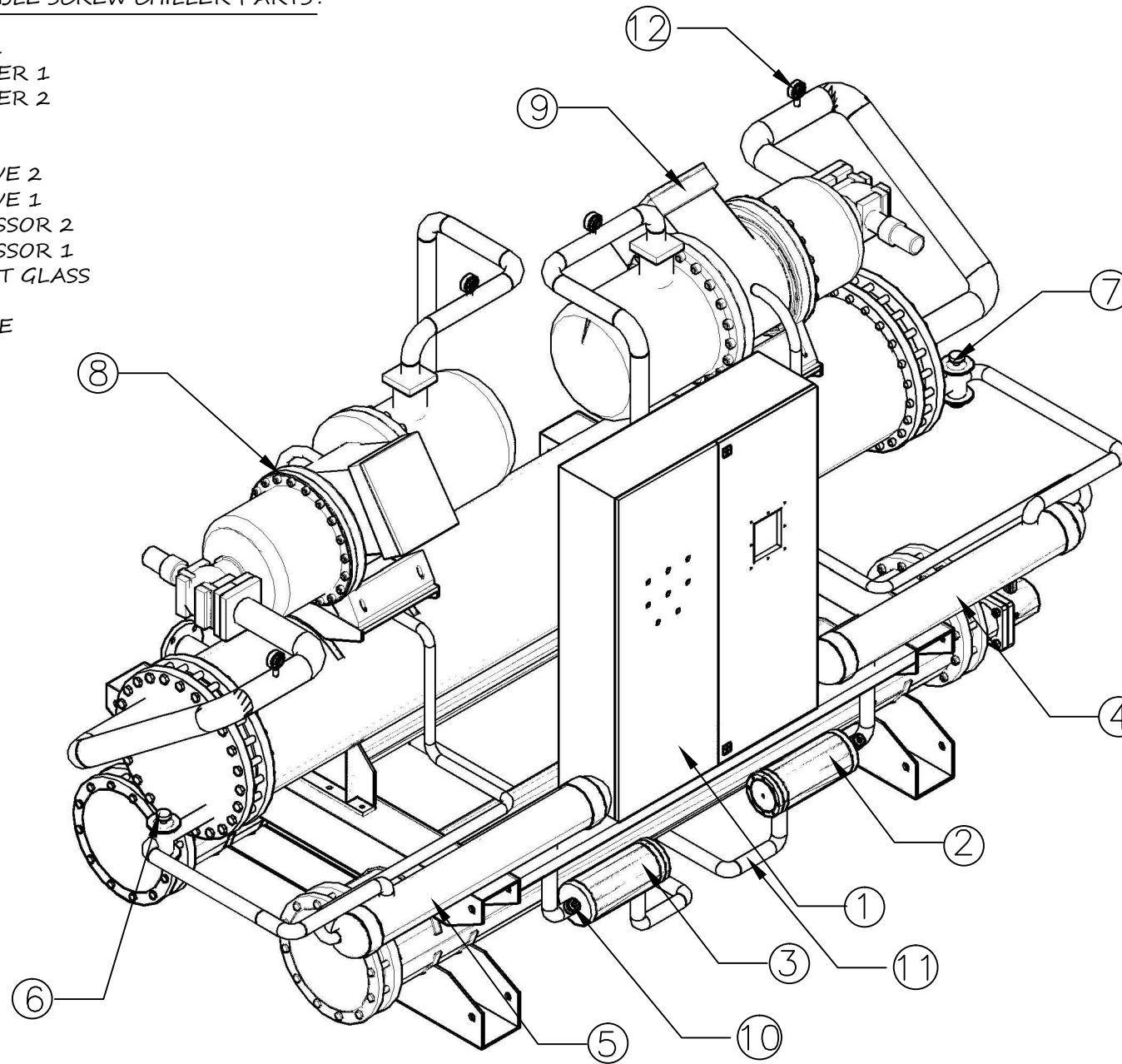
Nomenclature				
A	End to End Length	F	Suggested Clearance	
B	End to End Width	G	Suggested Clearance	
C	End to End Height	H	Suggested Clearance	
D	CT Water Inlet/Outlet Flange Center Distance from Base	I	Suggested Clearance	
E	Chilled Water Inlet/Outlet Center Distance from Base	J	Suggested Clearance	





WATER COOLED DOUBLE SCREW CHILLER PARTS:-

- 1). CONTROL PANEL
- 2). LIQUID LINE FILTER 1
- 3). LIQUID LINE FILTER 2
- 4). ECONOMIZER 1
- 5). ECONOMIZER 2
- 6). EXPANSION VALVE 2
- 7). EXPANSION VALVE 1
- 8). SCREW COMPRESSOR 2
- 9). SCREW COMPRESSOR 1
- 10). LIQUID LINE SIGHT GLASS
- 11). GLOVE VALVE
- 12). PRESSURE GAUGE



WATER COOLED DOUBLE SCREW CHILLER PARTS:-



- 13). CT WATER OUTLET
- 14). CT WATER INLET
- 15). CHILLED WATER OUTLET
- 16). CHILLED WATER INLET
- 17). FLOW SWITCH
- 18). CONDENSER 1
- 19). EVAPORATOR
- 20). CONDENSER 2

