

BROCHURE

Single Condenser

ThermalTrue®
HVAC & R

Single Condenser Series SCU-V1 / V2



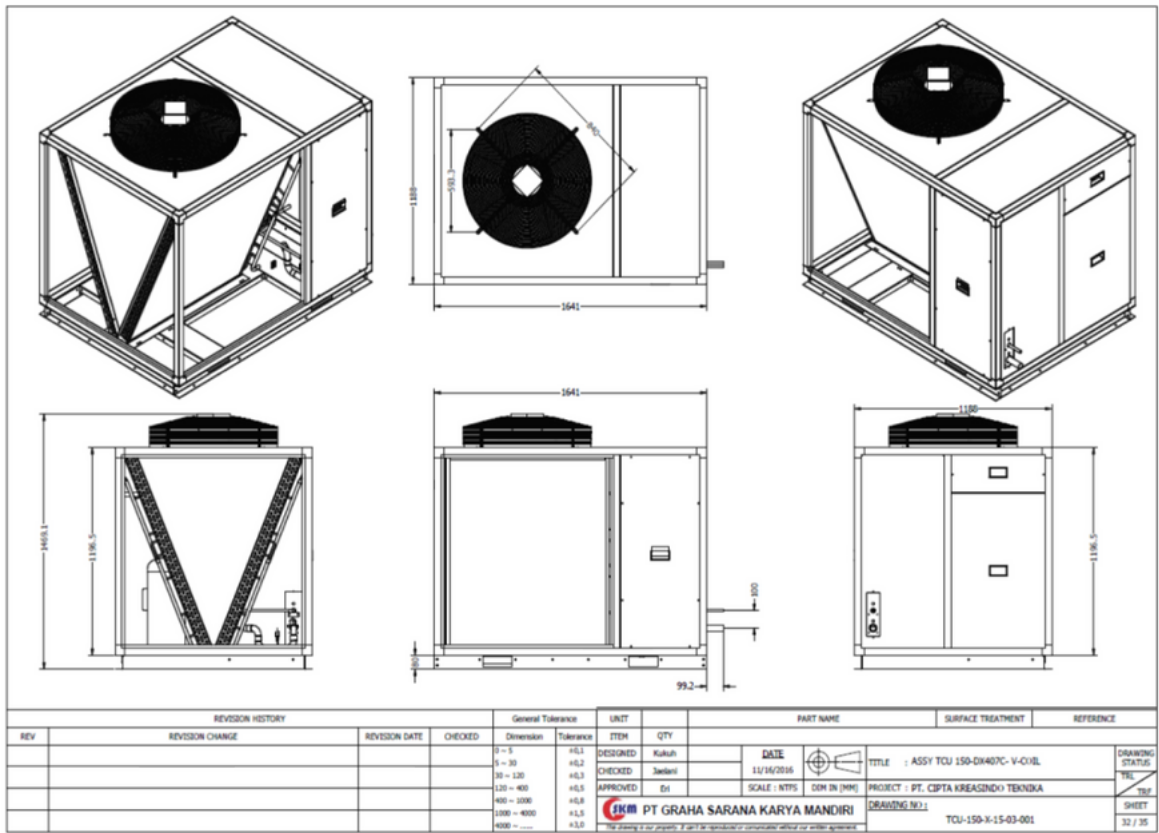
SCU	20, 25, 30, 40, 50, 60, 75, 90, 100, 125, 150 30, 40, 50, 60, 75, 100, 125, 150 150, 200, 250, 300 150, 200, 250, 300, 400, 500 300, 400, 500, 600	L TF M1 M2 V1 V2	X407 X410	SA/HA/CA
Series	Capacity in kBTU/h	Sub Series	R407c	SA : Std Ambient 35°C HA : High Ambient 45°C CA : Corrosive Ambient EX : Explosive Ambient

Single Condensing Unit SCU-V1 Series			Model	SCU150V1	SCU200V1	SCU250V1	SCU300V1	SCU350V1	SCU400V1
GENERAL DATA									
CAPACITY	Total Capacity	Btu/h	150.000	200.000	250.000	300.000	350.000	400.000	
		kW	44	59	73	88	103	117	
		kCal/h	37.788	50.384	62.980	75.576	88.172	100.768	
AIR FLOW		CFM	8.476	10.722	13.067	17.187	21.229	25.075	
		CMH	14.400	18.216	22.200	29.200	36.066	42.600	
		L/s	4.000	5.060	6.167	8.111	10.018	11.833	
CASING	Frame	Powder Coated/Anodised extruded aluminium profile and nylon corner piece							
	Panel	GI with Powder Coat Finish							
DIMENSION	Height	mm	1.297	1.297	1.297	1.297	1.297	1.297	
	Width	mm	1.203	1.203	1.203	1.203	1.203	1.203	
	Depth	mm	1.077	1.378	1.661	2.051	2.351	2.551	
CONNECTION	Type	Braze Joint							
	Liquid	in	5/8	7/8	7/8	7/8	7/8	7/8	
	Gas	in	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	
COIL SPECIFICATION									
COIL	Type	Aluminium fin mechanically bonded to seamless copper tube							
	Face Area	m2	2,23	2,95	3,74	4,56	5,28	5,76	
	Entering (DB/WB)	°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	
	Leaving (DB/WB)	°C/°C	47.3/27.1	47.5/27.1	47.6/27.1	47.3/27.1	46.8/27.0	46.6/26.9	
	Face Velocity	m/s	1,79	1,71	1,65	1,78	1,90	2,05	
	ΔP	Pa	31	29	27	30	37	39	
FAN & MOTOR SPECIFICATION									
FAN	Type	External Rotor Axial Fan c/w Fan Guard							
	Diameter	mm	710	800	630	710	800	710	
	Quantity	Set	1	1	2	2	2	3	
	Power Supply	V-Ø-Hz	380/415-3-50						
	Rated Running Current (Each)	A	1,9	2,9	1,6	1,9	2,9	1,9	
	Rated Power Input (Each)	W	900	1.200	800	900	1.200	900	
COMPRESSOR									
COMPRESSOR	Type	Hermetic Scroll							
	Capacity	Hp	15,0	20,0	25,0	30,0	35,0	40,0	
	Quantity	Set	1	1	1	1	1	1	
	Power Supply	V-Ø-Hz	380/415-3-50						
	Rated Cooling Capacity	kW	44	59	73	90	107	119	
	Rated Running Current (Each)	A	26,5	30,1	37,9	46,3	66,4	73,1	
	Rated Power Input (Each)	kW	13,7	18,1	22,4	27,1	39,3	43,6	
	COP		3,22	3,23	3,24	3,31	2,73	2,73	
	Electrical	Contactor & Overload / Phase & Over Voltage Protector						Contactor & Overload	
Pressure Switch	High & Low Pressure Switch								

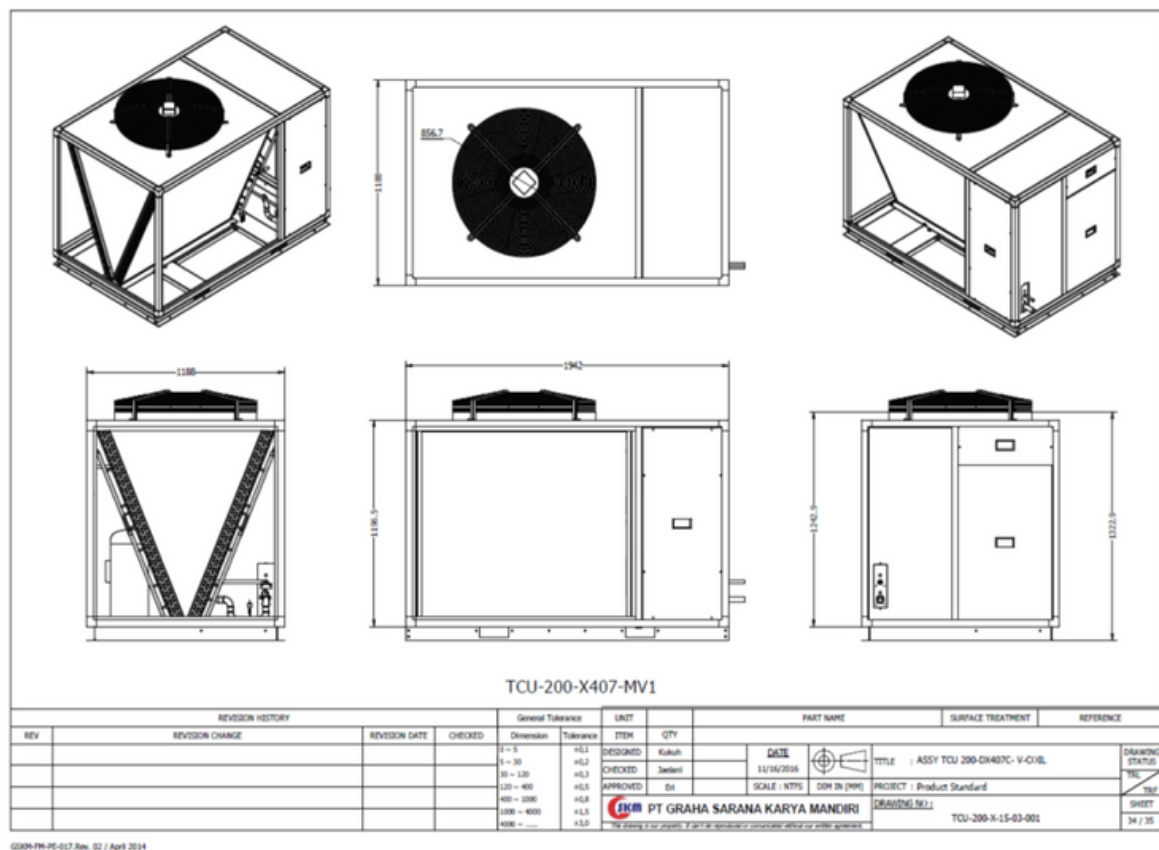
Single Condensing Unit SCU-V1 Series			Model	SCU300V2	SCU400V2	SCU500V2	SCU600V2	SCU700V2	SCU800V2
GENERAL DATA									
CAPACITY	Total Capacity	Btu/h	300.000	400.000	500.000	600.000	700.000	800.000	
		kW	88	117	146	176	205	234	
		kCal/h	75.576	100.768	125.960	151.151	176.343	201.535	
AIR FLOW	CFM	8.476	10.722	13.067	17.187	21.229	25.075		
	CMH	14.400	18.216	22.200	29.200	36.066	42.600		
	L/s	4.000	5.060	6.167	8.111	10.018	11.833		
CASING	Frame Panel	Powder Coated/Anodised extruded aluminium profile and nylon corner piece							
DIMENSION	Height	mm	1.297	1.297	1.297	1.297	1.297	1.297	
	Width	mm	2.406	2.406	2.406	2.406	2.406	2.406	
	Depth	mm	1.077	1.378	1.661	2.051	2.351	2.551	
CONNECTION	Type	Brazed Joint							
	Liquid	in	5/8	7/8	7/8	7/8	7/8	7/8	
	Gas	in	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	
COIL SPECIFICATION									
COIL	Type	Aluminium fin mechanically bonded to seamless copper tube							
	OD	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
	R		3	3	3	3	3	3	
	FPI		12	12	12	12	12	12	
	FW	mm	65	65	65	65	65	65	
	TH		48	48	48	48	48	48	
	FH	mm	1.200	1.200	1.200	1.200	1.200	1.200	
	FL	mm	930	1.230	1.560	1.900	2.200	2.400	
	Circuit		6	8	9	12	12	18	
	No. of Coil per Set	N	4	4	4	4	4	4	
	Face Area	m2	4.46	5.90	7.49	9.12	10.56	11.52	
	Entering (DB/WB)	°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	
	Leaving (DB/WB)	°C/°C	47.3/27.1	47.5/27.1	47.6/27.1	47.3/27.1	46.8/27.0	46.6/26.9	
	Face Velocity	m/s	0.90	0.86	0.82	0.89	0.95	1.03	
	ΔP	Pa	31	29	27	30	37	39	
FAN & MOTOR SPECIFICATION									
FAN	Type	External Rotor Axial Fan c/w Fan Guard							
	Diameter	mm	710	800	630	710	800	710	
	Quantity	Set	2	2	4	4	4	6	
	Power Supply	V-Ø-Hz	380/415-3-50						
	Rated Running Current (Each	A	1.9	2.9	1.6	1.9	2.9	1.9	
	Rated Power Input (Each)	W	900	1.200	800	900	1.200	900	
COMPRESSOR									
COMPRESSOR	Type	Hermetic Scroll				Semi Hermetic Recip			
	Capacity	Hp	15,0	20,0	25,0	30,0	35,0	40,0	
	Quantity	Set	2	2	2	2	2	2	
	Power Supply	V-Ø-Hz	380/415-3-50						
	Rated Cooling Capacity	kW	44	59	73	90	107	119	
	Rated Running Current (Each	A	26,5	30,1	37,9	46,3	66,4	73,1	
	Rated Power Input (Each)	kW	13,7	18,1	22,4	27,1	39,3	43,6	
	COP		3.22	3.23	3.24	3.31	2.73	2.73	
	Electrical Pressure Switch	Contactor & Overload / Phase & Over Voltage Protector				Contactor & Overload			
High & Low Pressure Switch									

GENERAL ASSEMBLY DRAWING

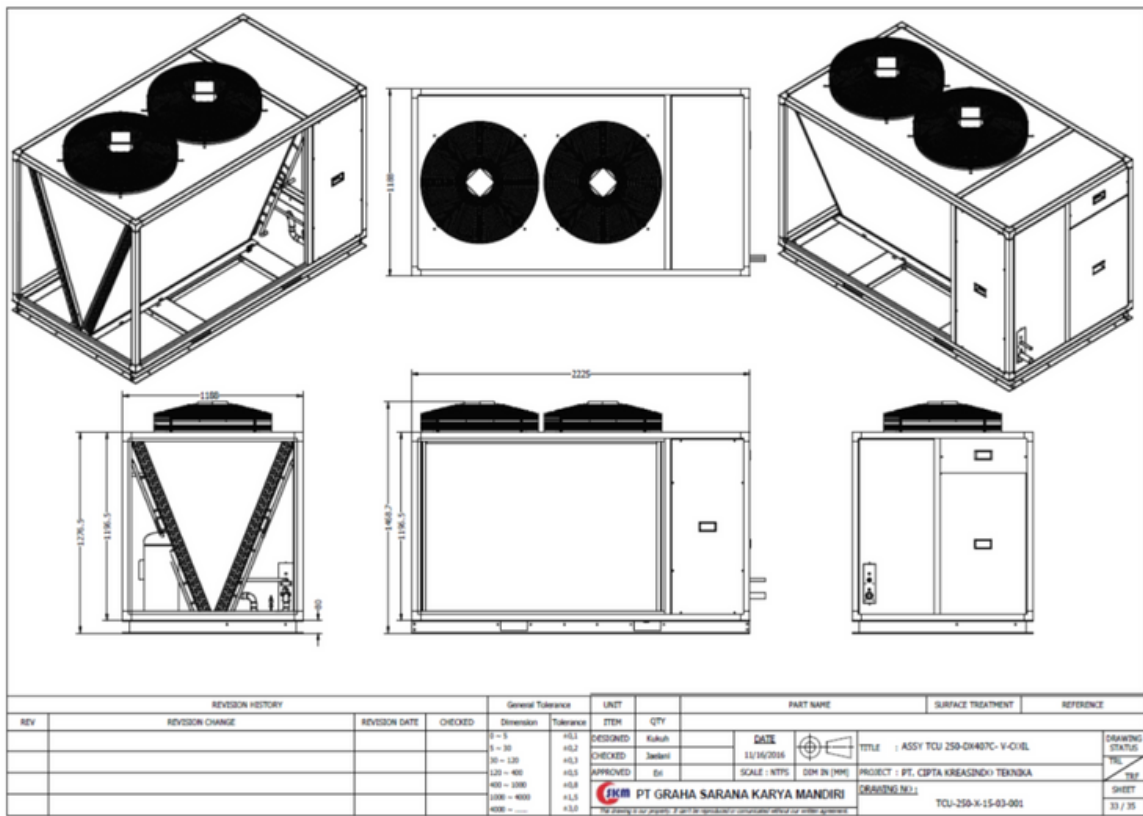
SCU150V1 / V2



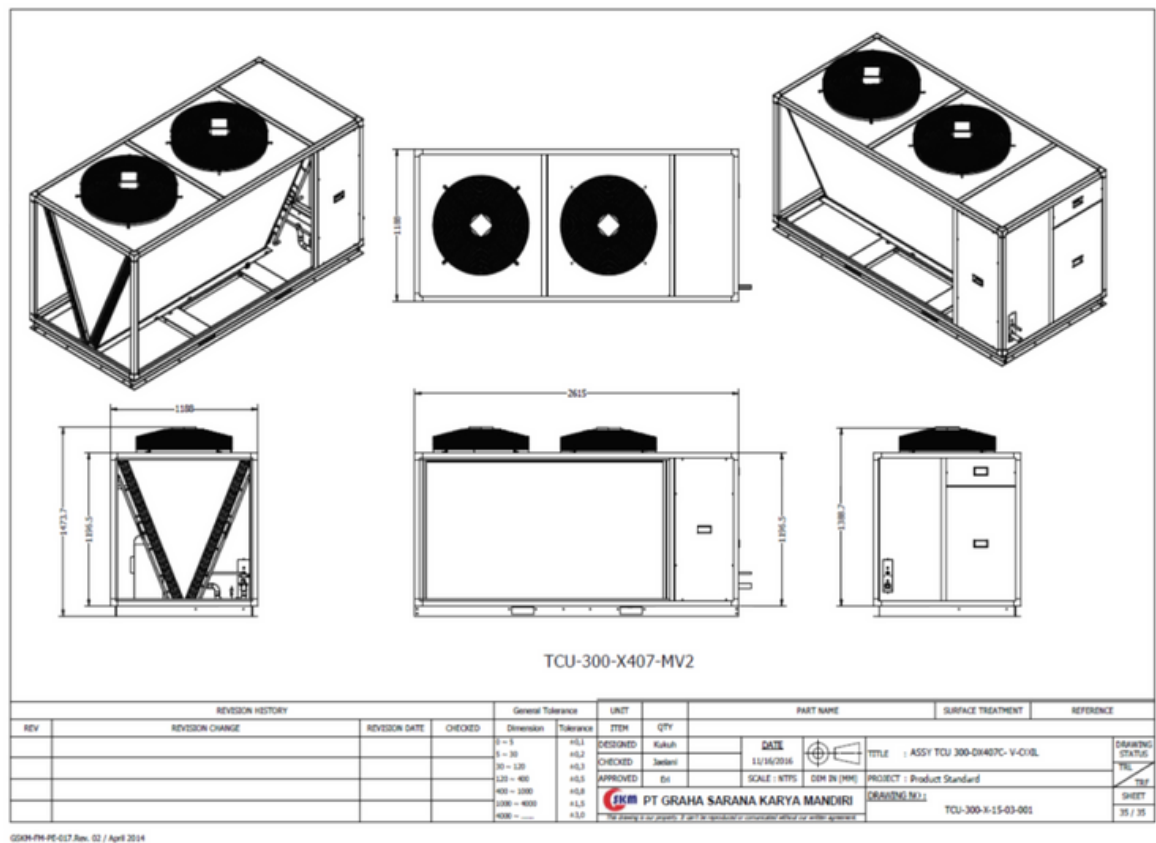
SCU200V1 / V2



SCU250V1 / V2



SCU300V1 / V2



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