

COMPRESSOR DEFINITION

Designation	VEG D6H
Nominal Voltage/Frequency	230 V 46-133 Hz
Engineering Number	513804023

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	230 / 46-133	[V / Hz]	
4 Application type	Low Back Pressure		
4.1 Evaporating temperature range	-35°C to -10°C	(-31°F to 14°F)	
5 Motor type	BPM		
6 Starting torque	LST - Low Starting Torque		
7 Expansion device	Capillary tube		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Static	-	-
8.2 LBP (43°C Ambient temperature)	Static	85 to 140 V	85 to 140 V
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	14.2	[kgf/cm ²] (202 psig)	/ °C - °F
9.2 Peak	15.9	[kgf/cm ²] (226 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/5	[hp]
2 Displacement	6.44	[cm ³] (0.393 cu.in)
2.1 Bore [mm]	22.500	
2.2 Stroke [mm]	16.200	
3 Lubricant charge	350	[ml] (11.84 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO10	
4 Weight (with oil charge)	10.74	[kg] (23.68 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 46-133 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	VCC3 1156 X2A52/VCC3 1156 XXXXX	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	VCC31156XXXXX	
6 Start winding resistance	7.69	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	7.69	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (46/133 Hz)	3.30/3.30/3.30/3.30/3.3 [A] - Measured according to UL 984	
9 FLA - Full load amperage L/MBP (46/133 Hz)	3.30/3.30/3.30/3.30/3.3 [A] - Measured according to UL 984	
10 FLA - Full Load Amperage HBP (46/133 Hz)	3.30/3.30/3.30/3.30/3.3 [A] - Measured according to UL 984	
11 Approval boards certification	CE - NOM - UKCA - UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V1400RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
311	78	91	51	0.83	1.77	6.13	1.54	1.80

TEST CONDITIONS: @115V1600RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
333	84	98	54	0.83	1.89	6.18	1.56	1.81

TEST CONDITIONS: @115V2000RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
432	109	127	69	1.00	2.45	6.24	1.57	1.83

TEST CONDITIONS: @115V3000RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
651	164	191	107	1.44	3.70	6.11	1.54	1.79

TEST CONDITIONS: @115V4000RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
852	215	250	145	1.96	4.84	5.87	1.48	1.72

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	185	47	54	31	0.48	1.05	6.03	1.52	1.77	
-30 (-22)	246	62	72	36	0.57	1.40	6.93	1.75	2.03	
-25 (-13)	325	82	95	41	0.67	1.85	7.92	1.99	2.32	
-20 (- 4)	425	107	124	47	0.76	2.42	9.05	2.28	2.65	
-15 (+ 5)	549	138	161	53	0.86	3.13	10.37	2.61	3.04	
-10 (+14)	701	177	205	59	0.97	4.02	11.96	3.01	3.50	

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	160	40	47	31	0.54	0.91	5.20	1.31	1.52	
-30 (-22)	229	58	67	38	0.64	1.30	6.01	1.51	1.76	
-25 (-13)	311	78	91	46	0.73	1.77	6.82	1.72	2.00	
-20 (- 4)	409	103	120	53	0.81	2.33	7.70	1.94	2.26	
-15 (+ 5)	527	133	154	61	0.90	3.01	8.69	2.19	2.55	
-10 (+14)	668	168	196	68	0.98	3.83	9.85	2.48	2.89	

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	126	32	37	29	0.53	0.71	4.36	1.10	1.28	
-30 (-22)	203	51	59	39	0.68	1.15	5.18	1.31	1.52	
-25 (-13)	288	73	84	48	0.83	1.64	5.92	1.49	1.74	
-20 (- 4)	385	97	113	58	0.97	2.19	6.65	1.68	1.95	
-15 (+ 5)	498	125	146	67	1.10	2.84	7.41	1.87	2.17	
-10 (+14)	630	159	184	76	1.22	3.61	8.26	2.08	2.42	

TEST CONDITIONS: @115V1600RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	204	51	60	34	0.51	1.15	6.04	1.52	1.77	
-30 (-22)	280	71	82	40	0.63	1.59	6.94	1.75	2.03	
-25 (-13)	371	94	109	47	0.76	2.11	7.93	2.00	2.32	
-20 (- 4)	479	121	140	53	0.89	2.73	9.05	2.28	2.65	
-15 (+ 5)	607	153	178	59	1.00	3.46	10.37	2.61	3.04	
-10 (+14)	757	191	222	64	1.06	4.34	11.95	3.01	3.50	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1600RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	176	44	51	34	0.54	0.99	5.21	1.31	1.53
-30	(-22)	250	63	73	41	0.63	1.42	6.00	1.51	1.76
-25	(-13)	339	85	99	49	0.76	1.92	6.80	1.71	1.99
-20	(- 4)	446	112	131	58	0.91	2.54	7.68	1.94	2.25
-15	(+ 5)	573	144	168	66	1.05	3.27	8.70	2.19	2.55
-10	(+14)	723	182	212	73	1.16	4.14	9.90	2.49	2.90

TEST CONDITIONS: @115V1600RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	150	38	44	34	0.61	0.85	4.49	1.13	1.32
-30	(-22)	220	55	64	42	0.68	1.25	5.24	1.32	1.54
-25	(-13)	306	77	90	52	0.82	1.74	5.94	1.50	1.74
-20	(- 4)	410	103	120	62	0.98	2.33	6.64	1.67	1.95
-15	(+ 5)	535	135	157	72	1.16	3.06	7.42	1.87	2.17
-10	(+14)	684	172	200	82	1.32	3.92	8.32	2.10	2.44

TEST CONDITIONS: @115V2000RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	264	67	77	45	0.67	1.50	5.87	1.48	1.72
-30	(-22)	354	89	104	52	0.77	2.00	6.76	1.70	1.98
-25	(-13)	457	115	134	59	0.91	2.59	7.69	1.94	2.25
-20	(- 4)	583	147	171	67	1.07	3.32	8.73	2.20	2.56
-15	(+ 5)	742	187	218	74	1.19	4.24	9.97	2.51	2.92
-10	(+14)	944	238	277	82	1.25	5.41	11.50	2.90	3.37

TEST CONDITIONS: @115V2000RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	228	57	67	45	0.66	1.29	5.13	1.29	1.50
-30	(-22)	324	82	95	54	0.78	1.83	5.93	1.49	1.74
-25	(-13)	428	108	125	64	0.96	2.43	6.70	1.69	1.96
-20	(- 4)	550	139	161	73	1.16	3.13	7.52	1.90	2.20
-15	(+ 5)	700	176	205	83	1.33	4.00	8.48	2.14	2.48
-10	(+14)	887	224	260	92	1.45	5.08	9.66	2.43	2.83

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@115V2000RPM		Static								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-35 (-31)	187	47	55	42	0.74	1.06	4.42	1.11	1.29	
-30 (-22)	291	73	85	55	0.85	1.65	5.21	1.31	1.53	
-25 (-13)	398	100	117	67	1.02	2.26	5.91	1.49	1.73	
-20 (- 4)	518	130	152	79	1.22	2.95	6.59	1.66	1.93	
-15 (+ 5)	660	166	193	90	1.40	3.77	7.35	1.85	2.15	
-10 (+14)	835	210	245	101	1.54	4.78	8.26	2.08	2.42	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@115V2500RPM		Static								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-35 (-31)	318	80	93	56	0.84	1.80	5.72	1.44	1.67	
-30 (-22)	434	109	127	66	1.01	2.46	6.60	1.66	1.93	
-25 (-13)	580	146	170	77	1.21	3.29	7.57	1.91	2.22	
-20 (- 4)	758	191	222	88	1.39	4.31	8.67	2.18	2.54	
-15 (+ 5)	971	245	285	98	1.53	5.54	9.94	2.51	2.91	
-10 (+14)	1222	308	358	107	1.58	7.00	11.44	2.88	3.35	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@115V2500RPM		Static								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-35 (-31)	265	67	78	54	0.86	1.50	4.99	1.26	1.46	
-30 (-22)	374	94	110	65	1.00	2.12	5.77	1.45	1.69	
-25 (-13)	515	130	151	78	1.21	2.92	6.59	1.66	1.93	
-20 (- 4)	692	174	203	92	1.43	3.94	7.48	1.89	2.19	
-15 (+ 5)	906	228	266	106	1.65	5.17	8.50	2.14	2.49	
-10 (+14)	1162	293	340	120	1.83	6.66	9.69	2.44	2.84	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@115V2500RPM		Static								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-35 (-31)	241	61	71	54	0.89	1.36	4.40	1.11	1.29	
-30 (-22)	331	84	97	65	0.97	1.88	5.13	1.29	1.50	
-25 (-13)	458	115	134	79	1.15	2.60	5.85	1.47	1.71	
-20 (- 4)	623	157	182	95	1.40	3.54	6.59	1.66	1.93	
-15 (+ 5)	828	209	243	111	1.67	4.73	7.41	1.87	2.17	
-10 (+14)	1078	272	316	129	1.94	6.18	8.35	2.10	2.45	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	394	99	115	70	1.11	2.23	5.64	1.42	1.65
-30	(-22)	520	131	152	80	1.27	2.94	6.48	1.63	1.90
-25	(-13)	670	169	196	91	1.40	3.80	7.41	1.87	2.17
-20	(- 4)	858	216	251	101	1.51	4.88	8.48	2.14	2.49
-15	(+ 5)	1096	276	321	112	1.61	6.26	9.72	2.45	2.85
-10	(+14)	1398	352	410	125	1.71	8.01	11.17	2.82	3.27

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	354	89	104	70	1.12	2.00	5.03	1.27	1.47
-30	(-22)	489	123	143	85	1.33	2.77	5.78	1.46	1.69
-25	(-13)	641	162	188	98	1.51	3.64	6.56	1.65	1.92
-20	(- 4)	823	207	241	111	1.68	4.68	7.42	1.87	2.17
-15	(+ 5)	1046	264	306	125	1.85	5.97	8.40	2.12	2.46
-10	(+14)	1324	334	388	139	2.03	7.59	9.53	2.40	2.79

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	290	73	85	66	1.08	1.64	4.40	1.11	1.29
-30	(-22)	443	112	130	85	1.30	2.51	5.13	1.29	1.50
-25	(-13)	603	152	177	102	1.51	3.42	5.85	1.47	1.71
-20	(- 4)	784	197	230	119	1.72	4.46	6.59	1.66	1.93
-15	(+ 5)	998	252	293	136	1.94	5.70	7.40	1.86	2.17
-10	(+14)	1260	317	369	152	2.18	7.22	8.30	2.09	2.43

TEST CONDITIONS: @115V4000RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	523	132	153	97	1.51	2.96	5.37	1.35	1.57
-30	(-22)	726	183	213	117	1.73	4.11	6.21	1.57	1.82
-25	(-13)	944	238	276	134	1.94	5.36	7.05	1.78	2.07
-20	(- 4)	1196	301	350	150	2.13	6.81	8.00	2.02	2.35
-15	(+ 5)	1503	379	440	163	2.27	8.58	9.18	2.31	2.69
-10	(+14)	1884	475	552	175	2.34	10.79	10.71	2.70	3.14

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4000RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	428	108	125	91	1.37	2.42	4.71	1.19	1.38
-30	(-22)	645	162	189	116	1.68	3.65	5.55	1.40	1.63
-25	(-13)	870	219	255	138	2.00	4.94	6.31	1.59	1.85
-20	(- 4)	1122	283	329	158	2.29	6.39	7.11	1.79	2.08
-15	(+ 5)	1423	359	417	177	2.55	8.12	8.05	2.03	2.36
-10	(+14)	1791	451	525	193	2.74	10.26	9.26	2.33	2.71

TEST CONDITIONS: @115V4000RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	299	75	88	76	1.24	1.69	3.93	0.99	1.15
-30	(-22)	532	134	156	107	1.59	3.01	4.86	1.23	1.43
-25	(-13)	766	193	224	135	1.95	4.35	5.64	1.42	1.65
-20	(- 4)	1021	257	299	161	2.29	5.81	6.36	1.60	1.86
-15	(+ 5)	1317	332	386	184	2.61	7.51	7.16	1.80	2.10
-10	(+14)	1673	422	490	205	2.87	9.58	8.13	2.05	2.38

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal EG/F/AMEM version 2		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.2 +0.12/-0.08	[mm]	(0.323" +0.005"/-0.003")
3.1.1 Material	Copper		
3.1.2 Shape	Straight		
3.2 DISCHARGE	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.3.1 Material	Copper		
3.3.2 Shape	Straight		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		