

CPC-1500C

**Industrial 1U Copper Intel Socket G2 PGA988 Sandy Bridge / Ivy Bridge
Core i3 / Core i5 / Core i7 / Celeron Mobile CPU Cooler**

Datasheet



- » Support Intel Socket G2 PGA988 Core i3 / i5 / i7 Mobile Processors.
- » Suitable for Intel Sandy Bridge / Ivy Bridge mobile platform up to 45W TDP.
 - » Meets 1U Systems Configuration with 25.90mm of Height with Fan.
 - » Copper-based Skive Heat Sink with Long-Life Dual Ball Bearing Fan.



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Overview and Key Features

Liantec CPC-1500C series is an industrial 1U copper-based CPU cooler for Intel Socket G2 μ PGA988 / FCPGA988 / rPGA988B Sandy Bridge / Ivy Bridge mobile processors.

- Support Intel Socket G2 PGA988 Core i3 / i5 / i7 Mobile Processors.
- Suitable for Intel Sandy Bridge / Ivy Bridge mobile platform with Socket G2 μ PGA988 / FCPGA988 / rPGA988B.
- 0.58°C/W of Thermal Resistance with 50x50x10mm 5000 rpm Fan with 10.8 CFM
- Meets 1U Systems Configuration with 25.90mm of Height with Fan.
- Copper-based Heat Sink with High-Density Skive Fins.
- Powerful 50mm / Long-Life Dual Ball Bearing Cooling Fan.



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Specification

Form Factor	Industrial 1U CPU Cooler
CPU Platform	Intel Socket G / G2 PGA988 (FCPGA988, rPGA988B) Core i3 / Core i5 / Core i7 / Celeron Mobile Processors Supports up to 45W of TDP
Chassis	1U and above of chassis height
Dimension	60 x 60 x 26.5 mm (overall dimension including fan)
Heat Sink	Material : Copper 1100. Technology : Skive.
Mounting Pitch	51.0 x 51.0 mm
Cooling Fan	<ul style="list-style-type: none">● Fan Dimension : 50 x 50 x 10 mm● Bearing System : 2 balls● Rated Speed : 5000±10% RPM● Rated Power Input : +12V DC● Rated Power Consumption : 2.8 watts● Acoustical Noise : 31.8 dBA● Lead Wire Pin Out :<ul style="list-style-type: none">■ Pin1-Black (-, power return, ground)■ Pin2-Red (+, power input, +12V dc)■ Pin3-White (Tachometer/Signal output)● MTBF over 50,000 hrs under 25°C or 77°F
Thermal Pad	Honeywell PCM45F thermal pad
Weight	199±5 g



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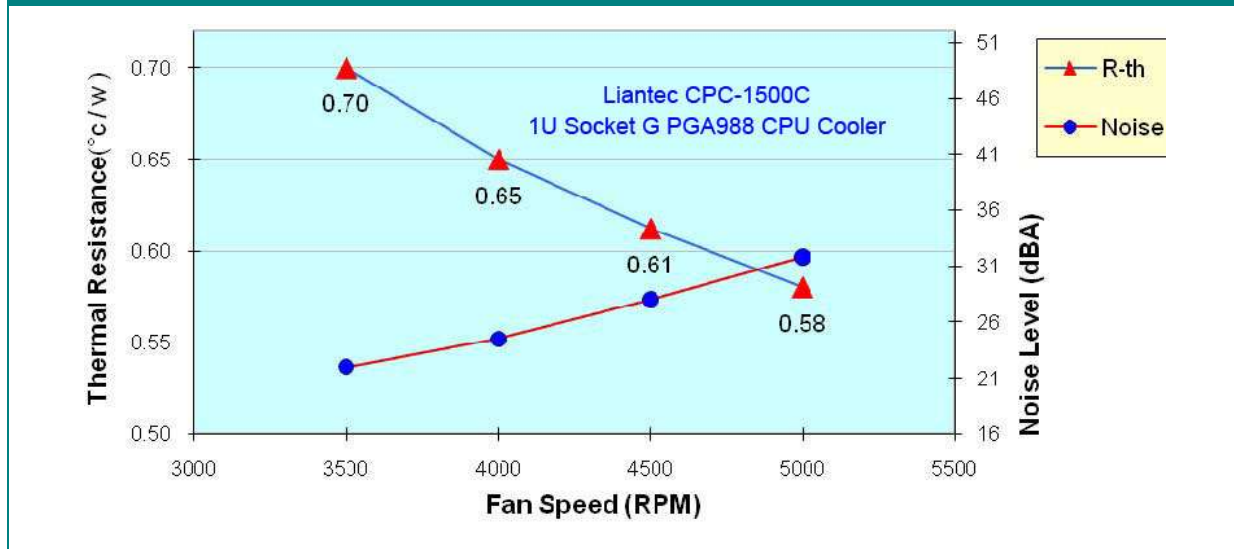
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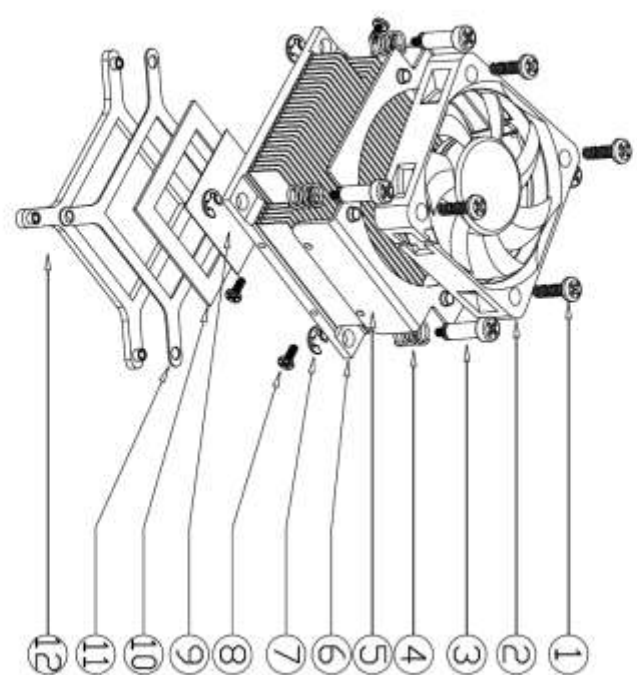
Thermal Resistance and Noise



Ordering Code

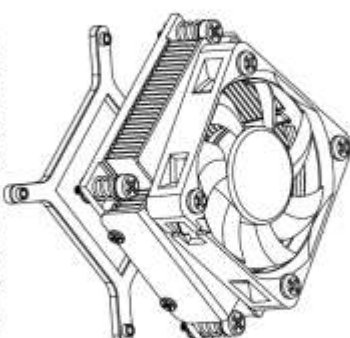
Ordering Code	Description
CPC-1500C	Industrial 1U Copper Intel Socket G/G2 PGA988 CPU Cooler Support Intel Sandy Bridge Core i3 / i5 / i7 Mobile Processors with Copper-based Skrive Heat Sink, Dual Ball Bearing Cooling Fan

Assembly Parts




ASSEMBLY PARTS

This drawing contains Liantec Systems Corporation proprietary information. Any reproduction, disclosure, or use of this drawing is strictly prohibited except as Top Make technology co., Ltd. otherwise agrees to in writing.



WHOLE SET OF COOLER



WHOLE PIECE OF BACKPLATE

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	Screw For Fan	Steel	4
2	Fan, 50x50x10	Plastic	1
3	Screw For HeatSink	Steel	4
4	Spring	SMP	4
5	Cover	AL5052	1
6	Heat Sink	Copper	1
7	C-Ring	Steel	4
8	Screw For Cover	Steel	4
9	Thermal Pad	PCMAS-SF	4
10	Sponge	Poron	1
11	Insulator	Mylar	1
12	Backplate	SPCC	1

Note:

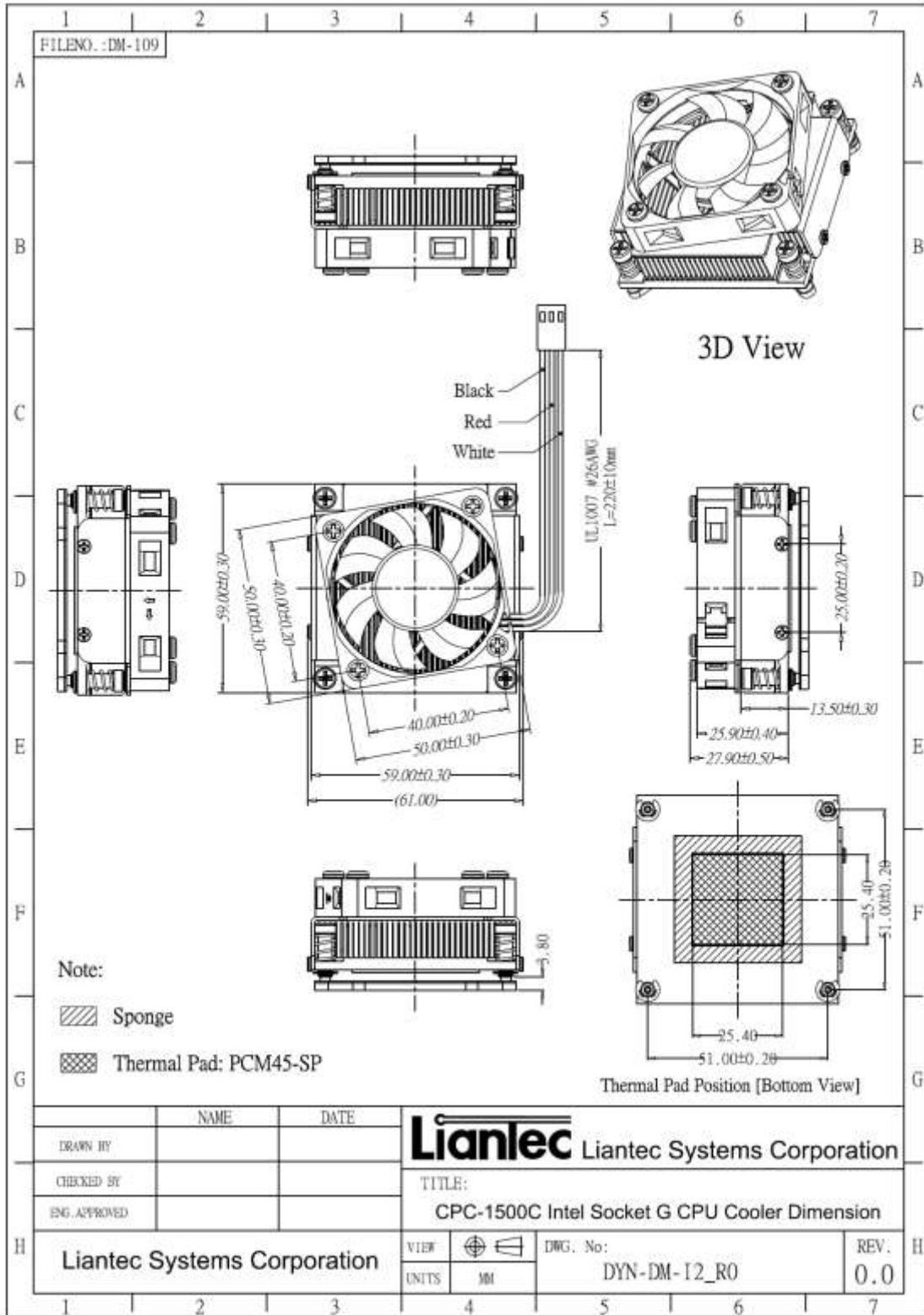
1. The figure is for reference only and not for scale.
2. Over all dimension: 59.0x61.0x27.9mm.
3. Heat sink dimension: 57.0x59.0x13.5mm.

NAME	DATE	TITLE	REV
NAME		Liantec Liantec Systems Corporation	
DATE		Explored Assembly Drawing	
TITLE		CPC-1500C	
REV			A

FILE NO.	ITEM #	DESCRIPTION	CHECKER	DATE
EP-100	01	Released	張仁君	1-20-11

NAME	DATE	DWG. NO.
NAME		DYN-EP-12_R0
DATE		
DWG. NO.		
COMMENTS:		

Product Dimension





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Cooling Fan Specification

1. SCOPE

This specification defines the electrical and mechanical characteristics of the AC / DC Brush less (Liquid State / 2-Balls Bearing) axial flow fan, which is carefully designed and manufactured for your special needs by Dynatron Corporation.

2. ELECTRICAL CHARACTERISTICS

Items		Description
1.	Rated Voltage	DC 12 V
2.	Start Voltage	DC 7 V
3.	Operating Voltage	10.8V-13.2V
4.	Air Flow – At rated voltage zero static pressure (minimal value)	0.306m ³ / min (10.8CFM)
5.	Static Pressure – At rated voltage At zero air flow	2.8mm-H ₂ O (0.110inch-H ₂ O)
6.	Input Current	0.23A (Max.)
7.	Input Power	2.76W
8.	Insulation Resistance – Between Frame and Terminal	10 M ohm at DC 500 V
9.	Dielectric Strength – Between Frame and Terminal	5 mA (Max.) @ AC 500 V 60 Hz 1 min.
10.	Speed	5000rpm ± 10 %
11.	Life – Continuous operating under normal temperature (25 °C or 77 °F)	50,000 hours
12.	Rotation	Anticlockwise Air Discharged
13.	Lead Wires	UL 1007, awg 28 or Equivalent “-”: Black; “+”: Red; ”s ”:White
14.	Acoustical Noise	31.8dBA



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3. MECHANICAL CHARACTERISTICS

Items		Description
1.	Dimension	Display as Drawing
2.	Frame	PBT UL94V-0 (Black GP)
3.	Impeller	PBT UL94V-0 (Black GP)
4.	Bearing System	Two Balls Bearing
5.	Weight	199±5grams

4. ENVIRONMENTAL

Items		Description
1.	Operating Temperature	- 10 °C ~ + 65 °C (65 %RH)
2.	Storage Temperature	- 30 °C ~ + 70 °C (65 %RH)
3.	Vibration Test	Displacement Amplitude: 0.75mm(Equivalent 10G) Frequency Range: 10Hz<->55Hz/30SEC. Lineear Scanning 120 Cycle Endurance Timer Per Axis: 30Min. Orientation:X,Y,Z.
4.	Drop Test	Motor withstands one free body drop from 30 cm in high onto 10 mm thickness of wooden board for each of the three faces in minimum packing condition.
5.	Acoustic Noise	31.8dBA – Curve (Max32.2dBA) Measuring Condition – Under rated voltage in semi-anechoic chamber equipment sound level meter. (Figure A.)



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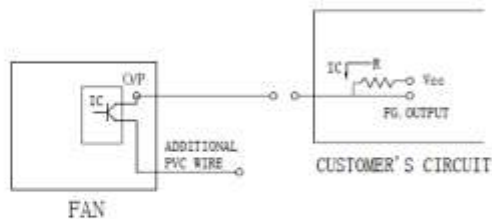
5. PROTECTION

Items		Description
1.	Polarity Protection	For polarity error connection to power, the circuit withstands reversed connection between positive and negative leads.
2.	Locked Rotor Protection	Motor winding protects the motor from damage in 72 hours of locked rotor condition at rated voltage.

Fan Frequency Generator Output

FREQUENCY GENERATOR O/P:

Frequency generator function is activated by an internal IC for customer's application.
Electrical schematic:



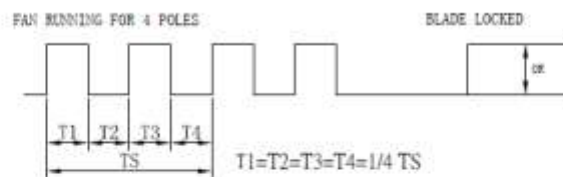
CUSTOMER'S CIRCUIT

Vcc = From +5 To +28 VDC (Generally using +12 or +24 VDC)

Ic = 5 mA max.

R = V/I (Output "R." value calculation)

● SUPPLY A WAVEFORM:



N=R.P.M. (Rotation speed will be different for various models)

L/M/H/HH/VH/SH)

TS=60/N (Sec)

* Voltage level after blade locked

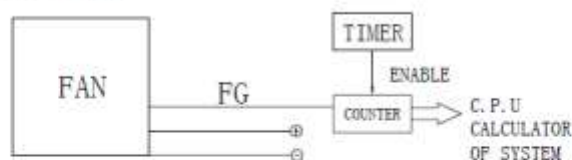
● OUTPUT LEVEL:

High = Vcc 10%

Low = 0~0.5V

Ic = 5 mA max.




● APPLICATION:



● FUNCTIONS:

- By means of waveform & customer's design, schematic can reach alarm function, either in the form of buzzing or LED flashing. Adjust rotation speed.
- When power supply output voltage level decreases, it will result in the lowering of fan rotation speed. The irregular situation will be controlled by using FG. O/P through P/S circuit to increase the output voltage and result in a stable rotation speed.

Fan TUV Certification

Zertifikat		Certificate			
Zertifikat Nr. <i>Certificate No.</i>	Blatt <i>Page</i>				
R 50064443	0002				
Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	Date of Issue		
PC/DTI	ZTW1-TCC- 10013649 002	11.11.2005	<i>(day/mo/yr)</i>		
Genehmigungsinhaber <i>License Holder</i>		Fertigungsstätte <i>Manufacturing Plant</i>			
Dynaeon Industrial Co., Ltd. 1st Fl., No. 362, Tanan Rd. Taipei 111 Taiwan, R.O.C.		Dynaeon Ind. Co., Ltd. Ta-Li Management Zone Ching-Hsi, Dongguan P.R. China			
Prüfzeichen <i>Test Mark</i>		Geprüft nach <i>Tested acc. to</i>			
		EN 60950-1:2001+A11			
Zertifiziertes Produkt <i>(Geräteidentifikation)</i>		Lizenzentgelte - Einheit			
Certified Product <i>(Product Identification)</i>		License Fee - Unit			
Ventilator (DC Fan)					
wie Blatt (as page) 01					
Ergänzung (Addition)					
Bezeichnung : DF(X1)(X2)(X3)(X4)(X5)ZZZZZ-(X6)					
(Type Designation)					
(X1) steht für (stands for) : 05, 12, 24					
(X2) steht für (stands for) : 40, 50, 60, 70, 80					
(X3) steht für (stands for) : 10, 15, 20					
(X4) steht für (stands for) : S, B, P, Q					
(X5) steht für (stands for) : U, H, M, L, E					
Z steht für (stands for) : A-Z, 0-9 oder freibleibend (or blank)					
(X6) steht für (stands for) : A, B					
Nennspannung : DC 5V (X1 = 05); DC 12V (X1 = 12)					
(Rated Voltage) DC 24V (X1 = 24)					
Nennstrom : siehe Aufbau-Übersicht					
(Rated Current) (see constructional dataform)					
ANLAGE (Appendix): 1.1					
<small>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.</small>					
TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln				Zertifizierungsstelle	
Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com					
				Dipl.-Ing. F. Stöckel	



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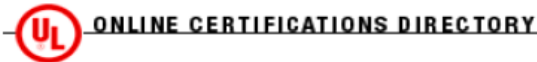
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Fan UL / cUL Certification



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DYNAEON INDUSTRIAL CO LTD
8TH FL 35 LANE 221 GANGCIAN RD
NEIHU DIST
TAIPEI, 114 TAIWAN

E157868

DC fans, Models D(F)1206(Z)(Y1)(X1), D(F)1207(Z)(Y1)(X1), where (F) may be F or C, (Z) may be SH, BH, BA, SM, BM, BB, SL, BL, BC, SD, BE, BF, SG, BI, BJ, SK, BN, BO, SP, BQ, BR, SS, BT, BU, SV, BW, BX, SY, BY or BZ, (Y1) may be "-", 0 through 9 or A through Z, (X1) may be 0 through 9 or A through Z.

Models DF248015(S)(X)(Y)(Z)(W), DF488015(S)(X)(Y)(Z)(W), where (S) may be S, B or P, (X) may be U, H, M or L, (Y) and (Z) may be any alphanumeric character, blank, "-" or any symbol, (W) may be seven any alphanumeric character, blank, "-" or any symbol.

Models DF121225(A)(B)(C), DF121225(A)E(C), DF241225(A)(B)(C), DF128015(A)U(C), DF128015(A)(B)(C), DF128025(A)U(C), DF128025(A)(B)(C), DF128025(A)E(C), DF248025(A)U(C), DF248025(A)(B)(C), DF129225(A)(B)(C), DF129225(A)E(C), DF249225(A)U(C), DF249225(A)(B)(C), DF126010(A)(B)(C), DF246025(A)U(C), DF246025(A)(B)(C), DF126025(A)U(C), DF126025(A)(B)(C), DF126025(A)E(C), DB126015BU(C), DB126015B(B)(C), DF123010(A)(B)(C), DF053010(A)(B)(C), DF127015(A)U(C), DF127015(A)(B)(C), DF245010(A)(B)(C), where (A) may be S, B, P or Q, (B) may be H, M or L, (C) may be xxxxxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models DF122510(X)(Y2)(Z)-(M), DF124020(X)(Y2)(Z)-(M), DF244020(X)(Y1)(Z)-(M), DF126025(X)(Y3)(Z)-(M), DF246025(X)(Y3)(Z)-(M), DF121225(X)(Y1)(Z)-(M), DF124028(X)(Y3)(Z)-(M), where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be U, H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank, (M) may be A or B.

Models DF054010(X)(Y2)(Z1)(Z2)-A, DF054010(X)L(Z1)(Z2)-B, DF124010(X)(Y2)(Z1)(Z2)-A, DF124010(X)L(Z1)(Z2)-B, DF244010(X)(Y2)(Z1)(Z2)-A, DF125015(X)(Y1)(Z1)(Z2)-A, DF125020(X)(Y3)(Z1)(Z2)-A, DF126015(X)(Y1)(Z1)(Z2)-A, DF246015(X)M(Z1)(Z2)-A, DF246015(X)L(Z1)(Z2)-A, DF128020(X)(Y1)(Z1)(Z2)-A, DF128020(X)L(Z1)(Z2)-B, DB127015(X)(Y2)(Z)-A series, where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be H, M, L or E, (Z1) may be blank or 3, (Z2) is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF125010(X)(Y)(Z)-A, DF126020(X)(Y)(Z)-A, DF246020(X)(Y)(Z)-A, DF121525(X)(Y1)(Z)-A, DF121525(X)(Y2)(Z)-B series, Where (X) may be S, B, P or Q, (Y) may be H, M or L, (Y1) may be U, H or M, (Y2) may be L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF128025(X)(a)(Y)-A, DF121225(X)(b)(Y)-C, DF121225(X)E(Y)-C, DF127720(X)(a)(Y)-A, DF121425(X)(c)(Y)-A, DF126010(X)E(Y)-A series, where (X) may be S, B, P, Q, (a) may be H, M, L or E, (b) may be M or L, (c) may be U, H, M, L or E, (Y) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF054010(X)(Y1)(Z1)(Z2)-C, DF124010(X)(Y2)(Z1)(Z2)-C, DF244010(X)(Y2)(Z1)(Z2)-C, DF124020BU(Z1)(Z2)-C, DF124020(X)(Y1)(Z1)(Z2)-C, DF124028BU(Z1)(Z2)-C, DF124028(X)(Y1)(Z1)(Z2)-C, DF126025BU(Z1)(Z2)-C, DF126025(X)(Y1)(Z1)(Z2)-C, DF127015BU(Z1)(Z2)-A, DF127015(X)(Y1)(Z1)(Z2)-A, DF128025BU(Z1)(Z2)-B, DF128025(X)(Y1)(Z1)(Z2)-B, DF129225BU(Z1)(Z2)-A, DF129225(X)(Y1)(Z1)(Z2)-A, DF121225BU(Z1)(Z2)-D, DF121225(X)(Y1)(Z1)(Z2)-D, DF121425(X)(Y1)(Z1)(Z2)-B, DB127015BU(Z1)(Z2)-B, DB127015(X)(Y1)(Z1)(Z2)-B, DB058015(X)(Y3)(Z1)(Z2)-A, where (X) may be S, B, P or Q, where (Y1) may be H, M, L or E, where (Y2) may be U, H, M, L or E, where (Y3) may be M or L, where (Z1) may be blank or 3, where (Z2) may be is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DB128015(X)(Y1)-(Z)-A, DF128038(X)(Y1)-(Z)-A, DB121225(X)(Y2)-(Z)-A, DF054010(X)(Y2)-(Z)-D, DF124010(X)(Y3)-(Z)-D, DF244010(X)(Y4)-(Z)-D, DF125010(X)(Y2)-(Z)-B, DF126010(X)(Y5)-(Z)-B series, where (X) may be S, B, P, Q, (Y1) may be U, H, M, L or E, (Y2) may be H, M or L, (Y3) may be U, M, L or E, (Y4) may be U, H, M or L, (Y5) may be H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Electric fans, Models DC0504, -1204, -1205, -1206, DF1204, -1208, -2408, -0504, -0505, -1205, -2406 followed by "S" or



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"B", followed by two alphanumeric characters.

Low voltage fans, Models DB1206, DF1209, -1212, -2409, DH1204 followed by B or S, followed by two alphanumeric characters.



Marking: Company name or trademark 立安泰克 and model designation.

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Models DF248015(S)(X)(Y)(Z)(W), DF488015(S)(X)(Y)(Z)(W), where (S) may be S, B or P, (X) may be U, H, M or L, (Y) and (Z) may be any alphanumeric character, blank, "-" or any symbol, (W) may be seven any alphanumeric character, blank, "-" or any symbol.

Models DF121225(A)(B)(C), DF121225(A)E(C), DF241225(A)(B)(C), DF128015(A)U(C), DF128015(A)(B)(C), DF128025(A)U(C), DF128025(A)(B)(C), DF128025(A)E(C), DF248025(A)U(C), DF248025(A)(B)(C), DF129225(A)(B)(C), DF129225(A)E(C), DF249225(A)U(C), DF249225(A)(B)(C), DF126010(A)(B)(C), DF246025(A)U(C), DF246025(A)(B)(C), DF126025(A)U(C), DF126025(A)(B)(C), DF126025(A)E(C), DB126015BU(C), DB126015B(B)(C), DF123010(A)(B)(C), DF053010(A)(B)(C), DF127015(A)U(C), DF127015(A)(B)(C), DF245010(A)(B)(C), where (A) may be S, B, P or Q, (B) may be H, M or L, (C) may be xxxxxxxx, where x may be A through Z, 0 through 9, "-" or blank.

Models DF122510(X)(Y2)(Z)-(M), DF124020(X)(Y2)(Z)-(M), DF244020(X)(Y1)(Z)-(M), DF126025(X)(Y3)(Z)-(M), DF246025(X)(Y3)(Z)-(M), DF121225(X)(Y1)(Z)-(M), DF124028(X)(Y3)(Z)-(M), where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be U, H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank, (M) may be A or B.

Models DF054010(X)(Y2)(Z1)(Z2)-A, DF054010(X)L(Z1)(Z2)-B, DF124010(X)(Y2)(Z1)(Z2)-A, DF124010(X)L(Z1)(Z2)-B, DF244010(X)(Y2)(Z1)(Z2)-A, DF125015(X)(Y1)(Z1)(Z2)-A, DF125020(X)(Y3)(Z1)(Z2)-A, DF126015(X)(Y1)(Z1)(Z2)-A, DF246015(X)M(Z1)(Z2)-A, DF246015(X)L(Z1)(Z2)-A, DF128020(X)(Y1)(Z1)(Z2)-A, DF128020(X)L(Z1)(Z2)-B, DB127015(X)(Y2)(Z)-A series, where (X) may be S, B, P, Q, (Y1) may be H, M or L, (Y2) may be U, H, M or L, (Y3) may be H, M, L or E, (Z1) may be blank or 3, (Z2) is alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF125010(X)(Y)(Z)-A, DF126020(X)(Y)(Z)-A, DF246020(X)(Y)(Z)-A, DF121525(X)(Y1)(Z)-A, DF121525(X)(Y2)(Z)-B series, Where (X) may be S, B, P or Q, (Y) may be H, M or L, (Y1) may be U, H or M, (Y2) may be L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF128025(X)(a)(Y)-A, DF121225(X)(b)(Y)-C, DF121225(X)E(Y)-C, DF127720(X)(a)(Y)-A, DF121425(X)(c)(Y)-A, DF126010(X)E(Y)-A series, where (X) may be S, B, P, Q, (a) may be H, M, L or E, (b) may be U, H, M, L or E, (c) may be U, H, M, L or E, (Y) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DF054010(X)(Y1)(Z1)(Z2)-C, DF124010(X)(Y2)(Z1)(Z2)-C, DF244010(X)(Y2)(Z1)(Z2)-C, DF124020BU(Z1)(Z2)-C, DF124020(X)(Y1)(Z1)(Z2)-C, DF124028BU(Z1)(Z2)-C, DF124028(X)(Y1)(Z1)(Z2)-C, DF126025BU(Z1)(Z2)-C, DF126025(X)(Y1)(Z1)(Z2)-C, DF127015BU(Z1)(Z2)-A, DF127015(X)(Y1)(Z1)(Z2)-A, DF128025BU(Z1)(Z2)-B, DF128025(X)(Y1)(Z1)(Z2)-B, DF129225BU(Z1)(Z2)-A, DF129225(X)(Y1)(Z1)(Z2)-A, DF121225BU(Z1)(Z2)-D, DF121225(X)(Y1)(Z1)(Z2)-D, DF121425(X)(Y1)(Z1)(Z2)-B, DB127015BU(Z1)(Z2)-B, DB127015(X)(Y1)(Z1)(Z2)-B, DB058015(X)(Y3)(Z1)(Z2)-A, where (X) may be S, B, P or Q, where (Y1) may be H, M, L or E, where (Y2) may be U, H, M, L or E, where (Y3) may be M or L, where (Z1) may be blank or 3, where (Z2) may be alphanumeric combination of four digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Models DB128015(X)(Y1)-(Z)-A, DF128038(X)(Y1)-(Z)-A, DB121225(X)(Y2)-(Z)-A, DF054010(X)(Y2)-(Z)-D, DF124010(X)(Y3)-(Z)-D, DF244010(X)(Y4)-(Z)-D, DF125010(X)(Y2)-(Z)-B, DF126010(X)(Y5)-(Z)-B series, where (X) may be S, B, P, Q, (Y1) may be U, H, M, L or E, (Y2) may be H, M or L, (Y3) may be U, M, L or E, (Y4) may be U, H, M or L, (Y5) may be H, M, L or E, (Z) is alphanumeric combination of five digits and/or alphabets, may be A through Z, 0 through 9 or blank.

Electric fans, Models DC0504, -1204, -1205, -1206, DF0504, -0505, -1204, -1205, -1208, -2406, -2408 followed by "S" or



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"B", followed by two alphanumeric characters.

Low voltage fans, Models DB1206, DF1209, -1212, -2409, DH1204 followed by B or S, followed by two alphanumeric characters.



Marking: Company name or trademark  , model designation and Recognized Component Mark for Canada,

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