



COOLING TECHNOLOGY INSTITUTE

P. O. Box 681807, Houston, Texas 77268 • 3845 Cypress Creek Parkway, Ste 420, Houston, Texas 77068
Phone: 281.583.4087 • Fax: 281.537.1721 • email: vmanser@cti.org • http://www.cti.org

Truwater Cooling Towers Sdn Bhd EC-S Series of CTI Certified Open, Induced-draft, Counter-flow Cooling Towers CTI Certification Validation Number C41A-12R04 July 5, 2017 (Revision 4)

Direct Drive Fan Models

Cells With 4 Air Inlets	Cells With 3 Air Inlets	Cells With 2 Air Inlets	Cells With 1 Air Inlet
ECS 0606X4-1U	ECS 0606X3-1U	ECS 0606X2-1U	ECS 0606X1-1U
ECS 0606Y4-1U	ECS 0606Y3-1U	ECS 0606Y2-1U	ECS 0606Y1-1U
ECS 0606Z4-1U	ECS 0606Z3-1U	ECS 0606Z2-1U	ECS 0606Z1-1U
ECS 0606A4-1U	ECS 0606A3-1U	ECS 0606A2-1U	ECS 0606A1-1U
ECS 0606B4-1U	ECS 0606B3-1U	ECS 0606B2-1U	ECS 0606B1-1U
ECS 0606X4-1V	ECS 0606X3-1V	ECS 0606X2-1V	ECS 0606X1-1V
ECS 0606Y4-1V	ECS 0606Y3-1V	ECS 0606Y2-1V	ECS 0606Y1-1V
ECS 0606Z4-1V	ECS 0606Z3-1V	ECS 0606Z2-1V	ECS 0606Z1-1V
ECS 0606A4-1V	ECS 0606A3-1V	ECS 0606A2-1V	ECS 0606A1-1V
ECS 0606B4-1V	ECS 0606B3-1V	ECS 0606B2-1V	ECS 0606B1-1V
ECS 0707X4-1V	ECS 0707X3-1V	ECS 0707X2-1V	ECS 0707X1-1V
ECS 0707Y4-1V	ECS 0707Y3-1V	ECS 0707Y2-1V	ECS 0707Y1-1V
ECS 0707Z4-1V	ECS 0707Z3-1V	ECS 0707Z2-1V	ECS 0707Z1-1V
ECS 0707A4-1V	ECS 0707A3-1V	ECS 0707A2-1V	ECS 0707A1-1V
ECS 0707B4-1V	ECS 0707B3-1V	ECS 0707B2-1V	ECS 0707B1-1V

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Belt or Gear Drive Fan Models

Cells With 4 Air Inlets	Cells With 3 Air Inlets	Cells With 2 Air Inlets	Cells With 1 Air Inlet
ECS 0711A4	ECS 0711A3	ECS 0711A2	ECS 0711A1
ECS 0711B4	ECS 0711B3	ECS 0711B2	ECS 0711B1
ECS 0711C4	ECS 0711C3	ECS 0711C2	ECS 0711C1
ECS 0711D4	ECS 0711D3	ECS 0711D2	ECS 0711D1
ECS 0711E4	ECS 0711E3	ECS 0711E2	ECS 0711E1
ECS 0811A4	ECS 0811A3	ECS 0811A2	ECS 0811A1
ECS 0811B4	ECS 0811B3	ECS 0811B2	ECS 0811B1
ECS 0811C4	ECS 0811C3	ECS 0811C2	ECS 0811C1
ECS 0811D4	ECS 0811D3	ECS 0811D2	ECS 0811D1
ECS 0811E4	ECS 0811E3	ECS 0811E2	ECS 0811E1
ECS 0911A4	ECS 0911A3	ECS 0911A2	ECS 0911A1
ECS 0911B4	ECS 0911B3	ECS 0911B2	ECS 0911B1
ECS 0911C4	ECS 0911C3	ECS 0911C2	ECS 0911C1
ECS 0911D4	ECS 0911D3	ECS 0911D2	ECS 0911D1
ECS 0911E4	ECS 0911E3	ECS 0911E2	ECS 0911E1
ECS 1012B4	ECS 1012B3	ECS 1012B2	ECS 1012B1
ECS 1012C4	ECS 1012C3	ECS 1012C2	ECS 1012C1
ECS 1012D4	ECS 1012D3	ECS 1012D2	ECS 1012D1
ECS 1012E4	ECS 1012E3	ECS 1012E2	ECS 1012E1
ECS 1012F4	ECS 1012F3	ECS 1012F2	ECS 1012F1
ECS 1010B4	ECS 1010B3	ECS 1010B2	ECS 1010B1
ECS 1010C4	ECS 1010C3	ECS 1010C2	ECS 1010C1
ECS 1010D4	ECS 1010D3	ECS 1010D2	ECS 1010D1
ECS 1010E4	ECS 1010E3	ECS 1010E2	ECS 1010E1
ECS 1010F4	ECS 1010F3	ECS 1010F2	ECS 1010F1
ECS 1111B4	ECS 1111B3	ECS 1111B2	ECS 1111B1
ECS 1111C4	ECS 1111C3	ECS 1111C2	ECS 1111C1
ECS 1111D4	ECS 1111D3	ECS 1111D2	ECS 1111D1
ECS 1111E4	ECS 1111E3	ECS 1111E2	ECS 1111E1
ECS 1111F4	ECS 1111F3	ECS 1111F2	ECS 1111F1
ECS 1212C4	ECS 1212C3	ECS 1212C2	ECS 1212C1
ECS 1212D4	ECS 1212D3	ECS 1212D2	ECS 1212D1
ECS 1212E4	ECS 1212E3	ECS 1212E2	ECS 1212E1
ECS 1212F4	ECS 1212F3	ECS 1212F2	ECS 1212F1
ECS 1212G4	ECS 1212G3	ECS 1212G2	ECS 1212G1

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ECS 1313C4	ECS 1313C3	ECS 1313C2	ECS 1313C1
ECS 1313D4	ECS 1313D3	ECS 1313D2	ECS 1313D1
ECS 1313E4	ECS 1313E3	ECS 1313E2	ECS 1313E1
ECS 1313F4	ECS 1313F3	ECS 1313F2	ECS 1313F1
ECS 1313G4	ECS 1313G3	ECS 1313G2	ECS 1313G1
ECS 1414B4	ECS 1414B3	ECS 1414B2	ECS 1414B1
ECS 1414C4	ECS 1414C3	ECS 1414C2	ECS 1414C1
ECS 1414D4	ECS 1414D3	ECS 1414D2	ECS 1414D1
ECS 1414E4	ECS 1414E3	ECS 1414E2	ECS 1414E1
ECS 1414F4	ECS 1414F3	ECS 1414F2	ECS 1414F1
ECS 1414G4	ECS 1414G3	ECS 1414G2	ECS 1414G1
ECS 1515D4	ECS 1515D3	ECS 1515D2	ECS 1515D1
ECS 1515E4	ECS 1515E3	ECS 1515E2	ECS 1515E1
ECS 1515F4	ECS 1515F3	ECS 1515F2	ECS 1515F1
ECS 1515G4	ECS 1515G3	ECS 1515G2	ECS 1515G1
ECS 1515H4	ECS 1515H3	ECS 1515H2	ECS 1515H1
ECS 1616D4	ECS 1616D3	ECS 1616D2	ECS 1616D1
ECS 1616E4	ECS 1616E3	ECS 1616E2	ECS 1616E1
ECS 1616G4	ECS 1616G3	ECS 1616G2	ECS 1616G1
ECS 1616H4	ECS 1616H3	ECS 1616H2	ECS 1616H1
ECS 1616I4	ECS 1616I3	ECS 1616I2	ECS 1616I1
ECS 1717E4	ECS 1717E3	ECS 1717E2	ECS 1717E1
ECS 1717F4	ECS 1717F3	ECS 1717F2	ECS 1717F1
ECS 1717G4	ECS 1717G3	ECS 1717G2	ECS 1717G1
ECS 1717H4	ECS 1717H3	ECS 1717H2	ECS 1717H1
ECS 1717I4	ECS 1717I3	ECS 1717I2	ECS 1717I1
ECS 1717J4	ECS 1717J3	ECS 1717J2	ECS 1717J1
ECS 1818E4	ECS 1818E3	ECS 1818E2	ECS 1818E1
ECS 1818F4	ECS 1818F3	ECS 1818F2	ECS 1818F1
ECS 1818G4	ECS 1818G3	ECS 1818G2	ECS 1818G1
ECS 1818H4	ECS 1818H3	ECS 1818H2	ECS 1818H1
ECS 1818I4	ECS 1818I3	ECS 1818I2	ECS 1818I1
ECS 1818J4	ECS 1818J3	ECS 1818J2	ECS 1818J1

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Belt or Gear Drive Fan Models			
Cells With 4 Air Inlets	Cells With 3 Air Inlets	Cells With 2 Air Inlets	Cells With 1 Air Inlet
ECS 2020F4	ECS 2020F3	ECS 2020F2	ECS 2020F1
ECS 2020G4	ECS 2020G3	ECS 2020G2	ECS 2020G1
ECS 2020H4	ECS 2020H3	ECS 2020H2	ECS 2020H1
ECS 2020I4	ECS 2020I3	ECS 2020I2	ECS 2020I1
ECS 2020J4	ECS 2020J3	ECS 2020J2	ECS 2020J1
ECS 2020K4	ECS 2020K3	ECS 2020K2	ECS 2020K1
ECS 2222G4	ECS 2222G3	ECS 2222G2	ECS 2222G1
ECS 2222H4	ECS 2222H3	ECS 2222H2	ECS 2222H1
ECS 2222I4	ECS 2222I3	ECS 2222I2	ECS 2222I1
ECS 2222J4	ECS 2222J3	ECS 2222J2	ECS 2222J1
ECS 2222K4	ECS 2222K3	ECS 2222K2	ECS 2222K1
ECS 2222L4	ECS 2222L3	ECS 2222L2	ECS 2222L1
ECS 2424G4	ECS 2424G3	ECS 2424G2	ECS 2424G1
ECS 2424H4	ECS 2424H3	ECS 2424H2	ECS 2424H1
ECS 2424I4	ECS 2424I3	ECS 2424I2	ECS 2424I1
ECS 2424J4	ECS 2424J3	ECS 2424J2	ECS 2424J1
ECS 2424K4	ECS 2424K3	ECS 2424K2	ECS 2424K1
ECS 2424L4	ECS 2424L3	ECS 2424L2	ECS 2424L1

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Footnotes:

1. Certification includes alternate structure materials
Prefix ECS = Hot dipped galvanized steel structure (Standard)
Prefix ECF = Pultruded FRP structure
Prefix ECT = Timber structure
Prefix ECX = Stainless steel structure
2. Certification includes alternate drive configurations
Suffix B = Belt & Pulley Drive
Suffix G = Gear Reducer Drive
Suffix 1U or 1V = Direct Drive
3. Certification includes two alternate fan manufacturers for the standard fan (no suffix).
4. Certification includes reduced sound level fan options (with noted performance impact), as follows:

Fan Type	Suffix	Performance Reduction
Super Low Noise	S	1%
Ultra Quiet	U	3%

5. Certification includes optional items that do not affect thermal performance
Suffix I = Internal inlet pipe
Suffix A = Additional access items {Example - optional handrail and caged ladder}
6. Certification does not include optional items that affect thermal performance
Suffix M = Modifications, installations, applications, or accessories not certified
7. Sample model number: ECS 1212D3-2BS
Where: EC = Product line
S = Hot dipped galvanized steel structure
1212 = Nominal box Size
D = Nominal motor size
3 = Number of air inlet sides
-2 = Number of cells
B = Belt & Pulley Drive
S = Super Low Noise Fan (heat rejection capacity equals 0.99*base value)