



# 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

**Baltimore Aircoil Company, Inc.**  
**Series V Closed Circuit Cooling Tower Line of CTI Certified Cooling Towers**  
**CTI Certification Validation Number C11K-00R02**  
**December 21, 2016 (Revision 2)**

## VF1 Models

VF1-009-12E	VF1-027-21H	VF1-036-21J	VF1-048-21L	VF1-096-31O
VF1-009-12F	VF1-027-21J	VF1-036-21K	VF1-048-21M	VF1-096-31P
VF1-009-12G	VF1-027-21K	VF1-036-21L	VF1-048-22L	VF1-096-31Q
VF1-009-22E	VF1-027-22H	VF1-036-22J	VF1-048-22M	VF1-096-32O
VF1-009-22F	VF1-027-22J	VF1-036-22K	VF1-048-31M	VF1-096-32P
VF1-009-22G	VF1-027-22K	VF1-036-22L	VF1-048-31N	VF1-096-32Q
VF1-009-32E	VF1-027-31H	VF1-036-31J	VF1-048-32M	VF1-096-41O
VF1-009-32F	VF1-027-31J	VF1-036-31K	VF1-048-32N	VF1-096-41P
VF1-009-32G	VF1-027-31K	VF1-036-31L	VF1-048-41M	VF1-096-41Q
VF1-009-42E	VF1-027-32H	VF1-036-32J	VF1-048-41N	VF1-096-42O
VF1-009-42F	VF1-027-32J	VF1-036-32K	VF1-048-42M	VF1-096-42P
VF1-009-42G	VF1-027-32K	VF1-036-32L	VF1-048-42N	VF1-096-42Q
	VF1-027-41H	VF1-036-41J		VF1-096-51P
VF1-018-02G	VF1-027-41J	VF1-036-41K	VF1-072-21M	VF1-096-51Q
VF1-018-02H	VF1-027-41K	VF1-036-41L	VF1-072-21N	
VF1-018-12F	VF1-027-42H	VF1-036-42J	VF1-072-21O	
VF1-018-12G	VF1-027-42J	VF1-036-42K	VF1-072-22M	
VF1-018-12H	VF1-027-42K	VF1-036-42L	VF1-072-22N	
VF1-018-22G		VF1-036-51J	VF1-072-22O	
VF1-018-22H		VF1-036-51K	VF1-072-31M	
VF1-018-22J		VF1-036-51L	VF1-072-31N	
VF1-018-32G			VF1-072-31O	
VF1-018-32H			VF1-072-41M	
VF1-018-32J			VF1-072-41N	
VF1-018-42G			VF1-072-41O	
VF1-018-42H				
VF1-018-42J				

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VF1-144-21P	VF1-192-31O	VF1-288-21P	VF1-432-21N
VF1-144-21Q	VF1-192-31P	VF1-288-21Q	VF1-432-21O
VF1-144-21R	VF1-192-31Q	VF1-288-21R	VF1-432-21P
VF1-144-22P	VF1-192-32O	VF1-288-22P	VF1-432-22N
VF1-144-22Q	VF1-192-32P	VF1-288-22Q	VF1-432-22O
VF1-144-22R	VF1-192-32Q	VF1-288-22R	VF1-432-22P
VF1-144-31P	VF1-192-41O	VF1-288-31P	VF1-432-31N
VF1-144-31Q	VF1-192-41P	VF1-288-31Q	VF1-432-31O
VF1-144-31R	VF1-192-41Q	VF1-288-31R	VF1-432-31P
VF1-144-32P	VF1-192-42O	VF1-288-32P	VF1-432-41O
VF1-144-32Q	VF1-192-42P	VF1-288-32Q	VF1-432-41P
VF1-144-32R	VF1-192-42Q	VF1-288-32R	VF1-432-41Q
VF1-144-41P	VF1-192-51P	VF1-288-41Q	
VF1-144-41Q	VF1-192-51Q	VF1-288-41R	
VF1-144-41R		VF1-288-42Q	
VF1-144-42P	VF1-216-21N	VF1-288-42R	
VF1-144-42Q	VF1-216-21O		
VF1-144-42R	VF1-216-21P	VF1-288N-21P	
	VF1-216-22N	VF1-288N-21Q	
VF1-144N-21P	VF1-216-22O	VF1-288N-21R	
VF1-144N-21Q	VF1-216-22P	VF1-288N-22P	
VF1-144N-21R	VF1-216-31N	VF1-288N-22Q	
VF1-144N-22P	VF1-216-31O	VF1-288N-22R	
VF1-144N-22Q	VF1-216-31P	VF1-288N-31P	
VF1-144N-22R	VF1-216-41O	VF1-288N-31Q	
VF1-144N-31P	VF1-216-41P	VF1-288N-31R	
VF1-144N-31Q	VF1-216-41Q	VF1-288N-32P	
VF1-144N-31R		VF1-288N-32Q	
VF1-144N-32P		VF1-288N-32R	
VF1-144N-32Q		VF1-288N-41P	
VF1-144N-32R		VF1-288N-41Q	
VF1-144N-41P		VF1-288N-41R	
VF1-144N-41Q			
VF1-144N-41R			

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VF1-1012N-4D2AS-O1	VF1-1012N-6D2AT-O1	VF1-1018N-4D2AS-N2	VF1-1018N-6D2AT-N2
VF1-1012N-4D2AS-P1	VF1-1012N-6D2AT-P1	VF1-1018N-4D2AS-O2	VF1-1018N-6D2AT-O2
VF1-1012N-4D2AS-Q1	VF1-1012N-6D2AT-Q1	VF1-1018N-4D2AS-P2	VF1-1018N-6D2AT-P2
VF1-1012N-4D2AS-R1	VF1-1012N-6D2AT-R1	VF1-1018N-4D2AS-Q2	VF1-1018N-6D2AT-Q2
	VF1-1012N-6D2AT-S1		
VF1-1012N-5D2AS-O1		VF1-1018N-5D2AS-N2	
VF1-1012N-5D2AS-P1	VF1-1012N-7D2AT-O1	VF1-1018N-5D2AS-O2	VF1-1018N-7D2AT-N2
VF1-1012N-5D2AS-Q1	VF1-1012N-7D2AT-P1	VF1-1018N-5D2AS-P2	VF1-1018N-7D2AT-O2
VF1-1012N-5D2AS-R1	VF1-1012N-7D2AT-Q1	VF1-1018N-5D2AS-Q2	VF1-1018N-7D2AT-P2
	VF1-1012N-7D2AT-R1		VF1-1018N-7D2AT-Q2
VF1-1012N-6D2AS-O1	VF1-1012N-7D2AT-S1	VF1-1018N-6D2AS-N2	
VF1-1012N-6D2AS-P1		VF1-1018N-6D2AS-O2	
VF1-1012N-6D2AS-Q1	VF1-1012N-8D2AT-O1	VF1-1018N-6D2AS-P2	VF1-1018N-8D2AT-N2
VF1-1012N-6D2AS-R1	VF1-1012N-8D2AT-P1	VF1-1018N-6D2AS-Q2	VF1-1018N-8D2AT-O2
VF1-1012N-6D2AS-S1	VF1-1012N-8D2AT-Q1		VF1-1018N-8D2AT-P2
	VF1-1012N-8D2AT-R1		VF1-1018N-8D2AT-Q2
VF1-1012N-7D2AS-O1	VF1-1012N-8D2AT-S1	VF1-1018N-7D2AS-N2	
VF1-1012N-7D2AS-P1		VF1-1018N-7D2AS-O2	
VF1-1012N-7D2AS-Q1		VF1-1018N-7D2AS-P2	
VF1-1012N-7D2AS-R1		VF1-1018N-7D2AS-Q2	
VF1-1012N-7D2AS-S1			
		VF1-1018N-8D2AS-N2	
VF1-1012N-8D2AS-O1		VF1-1018N-8D2AS-O2	
VF1-1012N-8D2AS-P1		VF1-1018N-8D2AS-P2	
VF1-1012N-8D2AS-Q1		VF1-1018N-8D2AS-Q2	
VF1-1012N-8D2AS-R1			
VF1-1012N-8D2AS-S1			
		VF1-1018N-4D2AT-N2	
VF1-1012N-4D2AT-O1		VF1-1018N-4D2AT-O2	
VF1-1012N-4D2AT-P1		VF1-1018N-4D2AT-P2	
VF1-1012N-4D2AT-Q1		VF1-1018N-4D2AT-Q2	
VF1-1012N-4D2AT-R1			
		VF1-1018N-5D2AT-N2	
VF1-1012N-5D2AT-O1		VF1-1018N-5D2AT-O2	
VF1-1012N-5D2AT-P1		VF1-1018N-5D2AT-P2	
VF1-1012N-5D2AT-Q1		VF1-1018N-5D2AT-Q2	
VF1-1012N-5D2AT-R1			

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### VF1 Models, continued

VF1-1024N-4D2AS-O2	VF1-1024N-6D2AT-O2	VF1-1036N-4D2AS-N4	VF1-1036N-6D2AT-N4
VF1-1024N-4D2AS-P2	VF1-1024N-6D2AT-P2	VF1-1036N-4D2AS-O4	VF1-1036N-6D2AT-O4
VF1-1024N-4D2AS-Q2	VF1-1024N-6D2AT-Q2	VF1-1036N-4D2AS-P4	VF1-1036N-6D2AT-P4
VF1-1024N-4D2AS-R2	VF1-1024N-6D2AT-R2	VF1-1036N-4D2AS-Q4	VF1-1036N-6D2AT-Q4
	VF1-1024N-6D2AT-S2		
VF1-1024N-5D2AS-O2		VF1-1036N-5D2AS-N4	
VF1-1024N-5D2AS-P2	VF1-1024N-7D2AT-O2	VF1-1036N-5D2AS-O4	VF1-1036N-7D2AT-N4
VF1-1024N-5D2AS-Q2	VF1-1024N-7D2AT-P2	VF1-1036N-5D2AS-P4	VF1-1036N-7D2AT-O4
VF1-1024N-5D2AS-R2	VF1-1024N-7D2AT-Q2	VF1-1036N-5D2AS-Q4	VF1-1036N-7D2AT-P4
	VF1-1024N-7D2AT-R2		VF1-1036N-7D2AT-Q4
	VF1-1024N-7D2AT-S2		
VF1-1024N-6D2AS-O2		VF1-1036N-6D2AS-N4	
VF1-1024N-6D2AS-P2		VF1-1036N-6D2AS-O4	
VF1-1024N-6D2AS-Q2	VF1-1024N-8D2AT-O2	VF1-1036N-6D2AS-P4	VF1-1036N-8D2AT-N4
VF1-1024N-6D2AS-R2	VF1-1024N-8D2AT-P2	VF1-1036N-6D2AS-Q4	VF1-1036N-8D2AT-O4
VF1-1024N-6D2AS-S2	VF1-1024N-8D2AT-Q2		VF1-1036N-8D2AT-P4
	VF1-1024N-8D2AT-R2		VF1-1036N-8D2AT-Q4
	VF1-1024N-8D2AT-S2		
VF1-1024N-7D2AS-O2		VF1-1036N-7D2AS-N4	
VF1-1024N-7D2AS-P2		VF1-1036N-7D2AS-O4	
VF1-1024N-7D2AS-Q2		VF1-1036N-7D2AS-P4	
VF1-1024N-7D2AS-R2		VF1-1036N-7D2AS-Q4	
VF1-1024N-7D2AS-S2			
VF1-1024N-8D2AS-O2		VF1-1036N-8D2AS-N4	
VF1-1024N-8D2AS-P2		VF1-1036N-8D2AS-O4	
VF1-1024N-8D2AS-Q2		VF1-1036N-8D2AS-P4	
VF1-1024N-8D2AS-R2		VF1-1036N-8D2AS-Q4	
VF1-1024N-8D2AS-S2			
VF1-1024N-4D2AT-O2		VF1-1036N-4D2AT-N4	
VF1-1024N-4D2AT-P2		VF1-1036N-4D2AT-O4	
VF1-1024N-4D2AT-Q2		VF1-1036N-4D2AT-P4	
VF1-1024N-4D2AT-R2		VF1-1036N-4D2AT-Q4	
VF1-1024N-5D2AT-O2		VF1-1036N-5D2AT-N4	
VF1-1024N-5D2AT-P2		VF1-1036N-5D2AT-O4	
VF1-1024N-5D2AT-Q2		VF1-1036N-5D2AT-P4	
VF1-1024N-5D2AT-R2		VF1-1036N-5D2AT-Q4	

**See Optional Accessories and Constructions Table, Page 7**



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## VFL Models

VFL-012-02F	VFL-048-22K	VFL-096-41N
VFL-012-02G	VFL-048-22L	VFL-096-41O
VFL-012-02H	VFL-048-22M	VFL-096-41P
VFL-012-12F	VFL-048-31K	VFL-096-42N
VFL-012-12G	VFL-048-31L	VFL-096-42O
VFL-012-12H	VFL-048-31M	VFL-096-42P
VFL-012-22F	VFL-048-32K	
VFL-012-22G	VFL-048-32L	
VFL-012-22H	VFL-048-32M	
VFL-012-32F	VFL-048-41L	
VFL-012-32G	VFL-048-41M	
VFL-012-32H	VFL-048-42L	
	VFL-048-42M	
VFL-024-12H		
VFL-024-22H	VFL-072-22M	
VFL-024-22J	VFL-072-22N	
VFL-024-32H	VFL-072-22O	
VFL-024-32J	VFL-072-22P	
	VFL-072-31N	
VFL-036-22J	VFL-072-31O	
VFL-036-22K	VFL-072-31P	
VFL-036-22L	VFL-072-32N	
VFL-036-22M	VFL-072-32O	
VFL-036-31K	VFL-072-32P	
VFL-036-31L	VFL-072-41N	
VFL-036-31M	VFL-072-41O	
VFL-036-32K	VFL-072-41P	
VFL-036-32L	VFL-072-42N	
VFL-036-32M	VFL-072-42O	
	VFL-072-42P	

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**See Optional Accessories and Constructions Table, Page 7**



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## Optional Accessories and Constructions – Certification Status

Option	Suffix (Note 1)	CTI Certified	Capacity Adjustment Required
Capacity Control Dampers	D	Yes	Yes
Tapered Discharge Hood	R	Yes	Yes
Straight Discharge Hood	none	Yes	No
Positive Closure Damper Hood - Tapered	H	Yes	Yes
Positive Closure Damper Hood - Straight	W	Yes	Yes
Discharge Sound Attenuation	Z	Yes	Yes
Cleanable Tube Coil	A	Yes	Note 2
Cleanable Header Coil	none	Yes	No
Stainless Steel Coil	T	Yes	Yes – Note 6
Heavy Duty Coil	S	Yes	Note 2
ASME Code Coil	none	Yes	Note 3
Alternate Coil Designator	O	Yes	No
Unit not CTI Certified (Note 4)	X	No	

- Notes:
- Typically no suffix is used for an accessory or modification that does not affect capacity.
  - Construction does not affect thermal capacity, but does increase Process Fluid Pressure Drop as noted in Selection Software.
  - ASME Code construction per se does not affect capacity or pressure drop, but often Heavy Duty Coil construction is specified as well which does affect pressure drop.
  - This suffix is affixed to model numbers of units that are not CTI Certified, due either to application or product accessories or modifications.
  - The CTI thermal performance certification applies only to units with water, ethylene glycol solutions, and propylene glycol solutions as the process fluid.
  - Stainless steel coils incur a 2%-4% capacity reduction versus standard hot dipped galvanized steel coil, depending on unit and operating conditions.