



gForce_{IR}

by **dataaire**

gForce IR:

Direct Rack Cooling In Any Direction

The direct expansion (DX) or chilled water (CW) gForce IR is a precision row based cooling unit designed to be installed within high-density server racks that are placed in a hot aisle/cold aisle design. The air enters the unit from the rear (hot aisle) and is discharged from the front (cold aisle). For precise cooling and optimal flexibility, gForce IR units have field-adjustable air delivery diffusers located in the discharge air stream to customize airflow direction. Adjustments allow for right, left or straight ahead air discharge.

Available in two widths for flexibility

- 12" (12"w x 42"d x 78.5" h)
- 24" (24"w x 42"d x 78.5" h)



FEATURES

dap4 Microprocessor

High-quality microprocessor to control and monitor the operation of the gForce IR. Equipped with LCD screen to clearly display the unit's functionality.

Targeted, Precise Cooling

Directs air where it needs to be via the Coanda effect for directional adjustment.

Variable Speed

- Adjustable variable speed fans for optimal efficiency
- Variable speed compressor provides substantial variable capacity modulation to accurately match varying temperature demands, resulting in increased energy savings.

MODELS AND PERFORMANCE DATA:

Direct Expansion Units (DX)

24" GIXX-022XX @ 2500 CFM						
	Air Cooled		Glycol Cooled (110°F & 15GPM)		Water Cooled	
EAT (DB/WB)	Net Total BTU/hr	Net Sensible BTU/hr	Net Total BTU/hr	Net Sensible BTU/hr	Net Total BTU/hr	Net Sensible BTU/hr
72/60	56,203	41,073	53,865	40,012	62,352	43,906
75/61.1	57,934	45,781	55,578	44,731	64,179	48,602
75/62.5	59,897	42,126	57,479	41,078	63,881	48,795
80/67	66,666	42,778	64,082	41,753	73,423	45,500
85/64.5	62,822	61,475	61,186	61,186	69,323	64,233
90/66.2	67,735	67,735	65,713	65,713	72,157	71,888
95/67.8	72,371	72,371	70,293	70,293	77,757	77,757
100/69.3	77,058	77,058	74,967	74,967	82,551	82,551
105/70.8	81,815	81,815	79,691	79,691	87,393	87,393

24" GIXX-035XX @ 3600 CFM						
	Air Cooled		Glycol Cooled (110°F & 15GPM)		Water Cooled	
EAT (DB/WB)	Net Total BTU/hr	Net Sensible BTU/hr	Net Total BTU/hr	Net Sensible BTU/hr	Net Total BTU/hr	Net Sensible BTU/hr
72/60	94,896	70,556	90,598	68,585	106,157	75,814
75/61.1	97,366	77,302	93,025	75,350	108,708	82,496
75/62.5	100,408	72,057	95,903	70,085	112,092	77,270
80/67	110,620	72,996	105,817	71,070	123,204	78,142
85/64.5	104,728	99,978	100,141	98,041	116,767	105,155
90/66.2	110,746	110,746	107,026	107,026	120,419	120,419
95/67.8	117,583	117,583	113,755	113,755	127,465	127,465
100/69.3	124,495	124,495	120,590	120,590	134,613	134,613
105/70.8	131,540	131,540	127,560	127,560	141,860	141,860

12" GIAX-010XX			
EAT (DB/WB)	Airflow	Net Total BTU/hr	Net Sensible BTU/hr
72/60	2,300	39,272	36,531
75/61.1	2,300	40,226	40,037
80/62.8	2,300	43,057	43,057
80/67	2,300	45,360	38,028
85/64.6	2,300	46,024	46,024
90/66.2	2,300	49,050	49,050
95/67.8	2,000	49,950	49,950
100/69.3	1,750	50,568	50,568
105/70.8	1,500	50,405	50,405

12" GIAX-020XX			
EAT (DB/WB)	Airflow	Net Total BTU/hr	Net Sensible BTU/hr
72/60	2,700	70,672	59,172
75/61.1	2,700	72,208	64,181
80/62.8	2,700	74,584	72,754
80/67	2,700	80,529	60,950
85/64.6	2,700	79,067	79,067
90/66.2	2,700	83,680	83,680
95/67.8	2,400	84,967	84,967
100/69.3	2,050	84,372	84,372
105/70.8	1,800	83,905	83,905

MODELS AND PERFORMANCE DATA:

Chilled Water Units (CW)

12" GICW-03012 (Entering Water @ 45°F)

EAT (DB/WB)	Chilled Water Flow Rate (gpm)	Chilled Water Delta T	Net Total BTU/hr	Net Sensible BTU/hr
80/62.8	14	10	62,756	62,756
80/62.8	10	12	56,439	56,439
85/64.5	16	10	74,305	74,305
85/64.5	10	14	64,784	64,784
90/66.1	18	10	85,779	85,779
90/66.1	11	14	75,471	75,471
95/67.7	16	12	92,854	92,854
95/67.7	13	14	88,183	88,183
100/69.2	18	12	104,569	104,569
100/69.2	15	14	100,510	100,510
105/70.8	16	14	111,075	111,075

24" GICW-06034 (Entering Water @ 45°F)

EAT (DB/WB)	Chilled Water Flow Rate (gpm)	Chilled Water Delta T	Net Total BTU/hr	Net Sensible BTU/hr
80/62.8	24	10	121,827	118,159
80/62.8	19	14	113,296	113,296
85/64.5	36	10	155,918	146,918
85/64.5	24	14	140,146	140,146
90/66.1	41	10	180,660	171,991
90/66.1	27	14	165,874	165,768
95/67.7	37	12	198,478	193,782
95/67.7	31	14	191,261	190,765
100/69.2	41	12	223,008	218,753
100/69.2	34	14	215,984	215,827
105/70.8	38	14	241,909	240,302

ABOUT DATA AIRE

Over 50 years ago, Data Aire recognized the need to protect critical data and joined forces with leading computer designers to develop their first precision air system for this emerging market.

Today, Data Aire provides an integrated approach for the precise control of sensitive computer room environments. Data Aire is an industry leader and manufacturer of floor-mounted units, ceiling-mounted units, specialty units, heat exchangers and system controls.

Known for products that are designed utilizing high levels of technology, Data Aire engineers are experienced visionaries who adapt processes and design proprietary unit enhancements which reflect the constant needs of today's mission critical spaces for either standard or custom applications. Data Aire is respected as the industry's most innovative and reliable source for the manufacture of products which protect mission critical information for companies worldwide.

Data Aire is part of the C/S Group of Companies.

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