

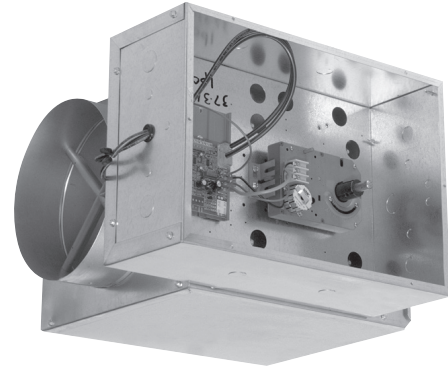
RECOMMENDED PRIMARY AIR CFM RANGES / ALL TERMINALS

Control Types:

- PESV / Pneumatic
- AESV / Analog Electronic
- DESV / Digital Electronic

QUICK SELECTION PROCEDURE

1. Select unit inlet size based upon acoustic parameters and/or maximum pressure drop requirements, using pages M15-M16
2. Check inlet size selection against cfm control limits based on control type shown on this page
3. Select accessories (multi-outlets, attenuators) as required
4. Select reheat coil, if required. Make your selection using the actual heating flow rate, not cooling.



Inlet Size	Total cfm Range	cfm Ranges of Minimum and Maximum Settings							
		PESV - Pneumatic Titus II Controller		PESV - Pneumatic Titus I Controller		AESV - Analog Electronic TA1 Controller		DESV - Digital Typical Controller	
		Minimum	Maximum	Minimum	Maximum	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
4	0-225	45*-170	80-225	55*-170	80-225	45*-225	45-225	30*-225	30-225
5	0-350	65*-270	120-350	85*-270	120-350	65*-350	65-350	40*-350	40-350
6	0-500	80*-330	150-500	105*-330	150-500	80*-500	80-500	45*-500	45-500
7	0-650	105*-425	190-650	135*-425	190-650	105*-650	105-650	70*-650	70-650
8	0-900	145*-590	265-900	190*-590	265-900	145*-900	145-900	90*-900	90-900
9	0-1050	175*-700	315-1050	225*-700	315-1050	175*-1050	175-1050	120*-1050	120-1050
10	0-1400	230*-925	415-1400	300*-925	415-1400	230*-1400	230-1400	145*-1400	145-1400
12	0-2000	325*-1330	600-2000	425*-1330	600-2000	325*-2000	325-2000	190*-2000	190-2000
14	0-3000	450*-1800	810-3000	575*-1800	810-3000	450*-3000	450-3000	300*-3000	300-3000
16	0-4000	580*-2350	1100-4000	750*-2350	1100-4000	580*-4000	580-4000	385*-4000	385-4000
24 x 16	0-8000	1400*-5200	2600-8000	1800*-5200	2600-8000	1400*-7500	1400-7500	720*-7500	720-7500

\*Factory cfm settings (except zero) will not be made below this range because control accuracy is reduced. On pressure dependent units, minimum cfm is always zero and there is no maximum.

Note: On controls mounted by Titus but supplied by others (FMA or Factory Mounting Authorization), these values are guidelines only. Controls mounted on an FMA basis are calibrated in the field.

## PESV, AESV, DESV / RADIATED SOUND PERFORMANCE

Size	CFM	Min ΔPs	Octave Band Sound Power, Lw																											
			0.5" ΔPs							1.0" ΔPs							1.5" ΔPs							2.0" ΔPs						
			2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
4	100	0.02	49	45	36	33	31	26	<b>11</b>	52	48	39	36	35	31	<b>15</b>	53	50	41	37	37	34	<b>17</b>	55	51	43	38	39	36	<b>18</b>
	125	0.03	52	49	39	36	32	27	<b>16</b>	55	52	42	38	36	32	<b>20</b>	57	54	44	40	39	36	<b>22</b>	58	55	45	41	40	38	<b>23</b>
	150	0.04	55	52	41	37	34	28	<b>20</b>	58	55	44	40	38	34	<b>23</b>	60	57	46	41	40	37	<b>25</b>	61	58	47	42	42	39	<b>27</b>
	175	0.06	58	55	42	39	35	29	<b>23</b>	61	58	46	42	39	34	<b>27</b>	63	59	48	43	41	38	<b>28</b>	64	61	49	44	43	40	<b>30</b>
	200	0.08	60	57	44	40	36	30	<b>25</b>	63	60	47	43	40	35	<b>29</b>	65	62	49	44	42	38	<b>31</b>	66	63	51	45	44	41	<b>33</b>
5	150	0.01	49	44	36	32	31	25	<b>10</b>	53	49	41	36	35	30	<b>16</b>	55	51	43	38	37	33	<b>18</b>	57	53	45	39	39	35	<b>21</b>
	200	0.02	53	48	39	35	34	27	<b>15</b>	56	53	44	38	37	32	<b>21</b>	59	55	46	40	40	35	<b>23</b>	60	57	48	42	41	37	<b>25</b>
	250	0.03	55	52	41	37	35	29	<b>20</b>	59	56	46	40	39	34	<b>24</b>	62	59	49	42	41	37	<b>28</b>	63	61	51	44	43	39	<b>30</b>
	300	0.04	58	54	43	39	37	30	<b>22</b>	62	59	48	42	41	35	<b>28</b>	64	61	50	44	43	38	<b>30</b>	65	63	52	45	44	40	<b>33</b>
	350	0.06	60	56	45	40	38	31	<b>24</b>	63	61	49	43	42	36	<b>30</b>	66	63	52	45	44	39	<b>33</b>	67	65	54	47	45	41	<b>35</b>
6	300	0.07	55	49	40	35	32	28	<b>16</b>	59	54	45	39	37	33	<b>22</b>	61	57	48	41	39	36	<b>25</b>	63	59	50	42	41	38	<b>28</b>
	350	0.10	57	52	42	37	34	29	<b>20</b>	60	57	47	41	38	34	<b>25</b>	62	59	50	43	40	37	<b>28</b>	64	62	52	44	42	39	<b>31</b>
	400	0.13	58	53	44	39	35	30	<b>21</b>	61	58	49	42	39	35	<b>27</b>	63	61	52	44	42	38	<b>30</b>	65	63	54	46	43	40	<b>33</b>
	450	0.16	59	55	45	40	36	31	<b>23</b>	62	60	50	44	40	36	<b>29</b>	64	63	53	46	43	39	<b>33</b>	66	65	55	47	45	41	<b>35</b>
	500	0.20	59	56	47	42	37	32	<b>24</b>	63	61	51	45	41	37	<b>30</b>	65	64	54	47	44	40	<b>34</b>	67	67	56	49	46	42	<b>37</b>
7	450	0.07	59	48	42	38	33	24	<b>20</b>	61	54	48	42	38	30	<b>23</b>	62	57	51	45	41	33	<b>25</b>	63	59	53	46	43	35	<b>28</b>
	500	0.09	60	50	43	39	34	24	<b>22</b>	62	55	49	43	39	30	<b>24</b>	63	58	52	46	42	34	<b>27</b>	64	60	54	48	44	36	<b>29</b>
	550	0.10	60	51	44	40	35	25	<b>22</b>	63	57	50	45	40	31	<b>25</b>	64	59	53	47	43	34	<b>28</b>	66	62	55	49	45	37	<b>31</b>
	600	0.12	61	53	45	42	35	25	<b>23</b>	63	58	51	46	41	31	<b>27</b>	65	61	54	48	44	35	<b>30</b>	66	63	56	50	46	37	<b>33</b>
	650	0.15	62	54	46	43	36	26	<b>24</b>	64	59	52	47	41	32	<b>28</b>	65	62	55	49	44	35	<b>31</b>	66	64	57	51	46	38	<b>34</b>
8	600	0.02	59	50	44	40	38	32	<b>20</b>	62	55	49	43	43	39	<b>24</b>	64	58	52	46	45	44	<b>27</b>	65	60	54	47	47	47	<b>29</b>
	650	0.02	60	51	44	41	39	32	<b>22</b>	63	56	50	44	44	40	<b>25</b>	65	59	53	47	46	45	<b>28</b>	66	61	55	48	48	48	<b>30</b>
	700	0.02	60	52	45	42	40	33	<b>22</b>	63	57	50	45	44	41	<b>25</b>	65	60	53	47	47	45	<b>29</b>	67	62	56	49	49	48	<b>31</b>
	750	0.02	61	53	46	43	40	34	<b>23</b>	64	58	51	46	45	41	<b>27</b>	66	61	54	48	48	46	<b>30</b>	67	63	56	50	50	49	<b>33</b>
	800	0.03	62	54	47	43	41	34	<b>24</b>	65	59	52	47	46	42	<b>28</b>	66	62	55	49	48	47	<b>31</b>	68	64	57	51	50	50	<b>34</b>
9	800	0.04	58	47	43	36	34	30	<b>19</b>	61	53	49	42	40	35	<b>23</b>	62	57	52	46	44	38	<b>26</b>	63	59	55	48	47	40	<b>29</b>
	850	0.04	58	48	43	37	34	31	<b>19</b>	61	54	49	43	41	35	<b>23</b>	63	58	53	46	45	38	<b>27</b>	64	60	55	49	47	40	<b>29</b>
	900	0.05	59	49	44	37	35	31	<b>20</b>	62	55	50	43	41	35	<b>24</b>	64	58	53	47	45	38	<b>27</b>	65	61	56	49	48	40	<b>30</b>
	950	0.06	59	50	44	37	35	31	<b>20</b>	62	56	50	43	42	36	<b>24</b>	64	59	54	47	45	38	<b>28</b>	65	62	56	49	48	40	<b>31</b>
	1000	0.06	60	50	44	38	36	31	<b>22</b>	63	56	50	44	42	36	<b>25</b>	65	60	54	47	46	39	<b>29</b>	66	62	57	50	48	40	<b>31</b>
10	900	0.01	60	50	47	45	42	29	<b>22</b>	63	57	53	50	48	37	<b>27</b>	65	60	57	53	52	41	<b>31</b>	67	63	59	56	54	44	<b>34</b>
	1000	0.01	60	51	48	46	43	30	<b>22</b>	64	58	54	51	49	38	<b>28</b>	66	61	57	54	53	42	<b>31</b>	67	64	59	56	55	45	<b>34</b>
	1100	0.01	61	52	48	47	44	32	<b>23</b>	65	58	54	52	50	39	<b>28</b>	67	62	57	55	54	43	<b>31</b>	68	64	60	57	56	46	<b>35</b>
	1200	0.01	62	53	48	47	45	32	<b>24</b>	65	59	54	53	51	40	<b>28</b>	67	63	58	56	55	44	<b>33</b>	69	65	60	58	57	47	<b>35</b>
	1300	0.01	63	54	49	48	45	33	<b>25</b>	66	60	55	53	52	41	<b>29</b>	68	63	58	56	55	45	<b>33</b>	69	66	61	58	58	48	<b>36</b>
12	1200	0.01	58	50	47	41	37	30	<b>20</b>	62	56	52	47	43	37	<b>26</b>	64	59	56	50	46	41	<b>30</b>	66	61	58	53	49	43	<b>32</b>
	1400	0.01	60	52	48	42	38	32	<b>22</b>	63	57	54	48	45	39	<b>28</b>	65	60	57	52	48	42	<b>31</b>	67	63	60	54	51	45	<b>35</b>
	1600	0.01	61	53	50	43	40	34	<b>24</b>	64	59	55	49	46	40	<b>29</b>	66	62	59	53	50	44	<b>34</b>	68	64	61	55	52	47	<b>36</b>
	1800	0.01	61	55	51	44	41	35	<b>25</b>	65	60	56	50	48	41	<b>30</b>	67	63	60	54	51	45	<b>35</b>	69	65	62	56	54	48	<b>37</b>
	2000	0.01	62	56	52	45	43	36	<b>26</b>	66	61	57	51	49	43	<b>31</b>	68	64	61	55	52	47	<b>36</b>	69	67	63	57	55	49	<b>38</b>
14	1500	0.02	56	51	45	43	40	36	<b>18</b>	60	56	50	48	45	41	<b>24</b>	62	59	53	51	48	45	<b>28</b>	64	61	55	53	50	47	<b>30</b>
	1800	0.03	58	53	46	44	41	36	<b>21</b>	62	58	51	49	46	42	<b>27</b>	64	60	54	52	49	45	<b>29</b>	66	63	56	54	51	48	<b>33</b>
	2100	0.04	59	54	47	45	42	37	<b>22</b>	63	59	52	50	47	43	<b>28</b>	66	62	55	53	50	46	<b>31</b>	67	64	58	55	52	49	<b>34</b>
	2400	0.05	60	55	48	46	43	38	<b>23</b>	64	60	53	51	48	43	<b>29</b>	67	63	56	54	51	47	<b>33</b>	69	65	58	56	53	49	<b>35</b>
	2700	0.06	62	56	49	47	44	38	<b>24</b>	66	61	54	52	49	44	<b>30</b>	68	64	57	55	52	47	<b>34</b>	70	66	59	57	54	50	<b>36</b>
16	2000	0.02	55	48	43	41	39	31	<b>36</b>	59	53	47	45	44	38	<b>21</b>	61	56	50	47	47	41	<b>24</b>	63	58	52	49	49	44	<b>27</b>
	2400	0.02	57	51	45	43	41	33	<b>18</b>	61	56	49	47	46	39	<b>24</b>	64	59	52	49	49	43	<b>28</b>	65	61	54	51	51	46	<b>30</b>
	2800	0.03	59	53	46	44	42	34	<b>21</b>	63	58	51	48	47	41	<b>27</b>	66	61	54	50	50	45	<b>30</b>	67	63	55	52	52	48	<b>33</b>
	3200	0.04	61	55	48	46	44	36	<b>23</b>	65	60	52	50	49	42	<b>29</b>	67	62	55	52	52	46	<b>31</b>	69	64	57	53	54	49	<b>34</b>
	3600	0.05	62	56	49	47	45	37	<b>24</b>	66	61	54	51	50	44	<b>30</b>	69	64	56	53	53	48	<b>34</b>	71	66	58	55	55	50	<b>36</b>
40	3900																													

PESV, AESV, DESV / DISCHARGE SOUND PERFORMANCE

Redefine your comfort zone™ | www.titus-hvac.com

Size	CFM	Min ΔPs	Octave Band Sound Power, Lw																											
			0.5" ΔPs							1.0" ΔPs							1.5" ΔPs							2.0" ΔPs						
			2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
4	100	0.02	70	56	47	42	40	33	<b>28</b>	71	59	51	46	47	41	<b>29</b>	72	61	54	49	50	46	<b>30</b>	73	62	56	51	53	49	<b>31</b>
	125	0.03	72	60	50	44	42	35	<b>30</b>	73	63	54	49	49	43	<b>31</b>	74	64	57	52	52	47	<b>33</b>	75	65	59	54	55	51	<b>34</b>
	150	0.04	73	63	52	47	44	36	<b>31</b>	75	65	57	51	50	44	<b>34</b>	76	67	60	54	54	49	<b>35</b>	76	68	61	56	57	52	<b>35</b>
	175	0.06	75	65	54	48	45	37	<b>34</b>	76	68	59	53	51	45	<b>35</b>	77	69	62	56	55	50	<b>36</b>	78	71	64	58	58	53	<b>38</b>
	200	0.08	76	67	56	50	46	38	<b>35</b>	77	70	61	55	53	46	<b>36</b>	78	72	63	58	56	51	<b>38</b>	79	73	65	60	59	54	<b>39</b>
5	150	0.01	68	53	47	43	41	34	<b>25</b>	70	58	52	47	47	42	<b>28</b>	72	60	55	50	51	46	<b>30</b>	73	62	58	52	53	49	<b>31</b>
	200	0.02	71	57	50	46	43	36	<b>29</b>	73	61	56	51	49	44	<b>31</b>	75	64	59	53	53	48	<b>34</b>	76	66	61	55	55	51	<b>35</b>
	250	0.03	73	60	53	49	45	38	<b>31</b>	75	65	58	53	51	45	<b>34</b>	77	67	61	56	55	50	<b>36</b>	78	69	63	58	57	53	<b>38</b>
	300	0.04	74	62	55	51	47	39	<b>29</b>	77	67	60	55	53	46	<b>33</b>	78	70	63	58	56	51	<b>34</b>	79	72	66	60	59	54	<b>35</b>
	350	0.06	76	64	57	52	48	40	<b>31</b>	78	69	62	57	54	47	<b>34</b>	80	72	65	60	57	52	<b>36</b>	81	74	67	61	60	55	<b>38</b>
6	300	0.07	68	60	54	50	45	39	<b>21</b>	72	65	59	54	51	46	<b>26</b>	75	68	62	57	54	50	<b>30</b>	77	70	64	58	56	53	<b>33</b>
	350	0.10	69	62	55	52	47	40	<b>22</b>	74	67	61	56	52	47	<b>29</b>	76	70	64	59	55	51	<b>31</b>	78	72	66	60	58	54	<b>34</b>
	400	0.13	71	63	57	54	48	41	<b>25</b>	75	69	62	58	53	48	<b>30</b>	78	72	65	60	57	52	<b>34</b>	79	74	67	62	59	55	<b>35</b>
	450	0.16	72	65	58	55	49	42	<b>26</b>	76	70	64	59	54	49	<b>31</b>	79	73	67	62	58	53	<b>35</b>	81	76	69	63	60	56	<b>38</b>
	500	0.20	73	66	60	56	50	43	<b>28</b>	77	72	65	61	55	50	<b>33</b>	80	75	68	63	59	54	<b>36</b>	82	77	70	65	61	57	<b>39</b>
7	450	0.07	71	61	54	51	47	40	<b>25</b>	74	66	59	54	51	46	<b>29</b>	75	70	61	56	54	49	<b>30</b>	77	72	63	58	56	52	<b>33</b>
	500	0.09	71	62	55	52	48	40	<b>25</b>	74	68	60	56	52	47	<b>29</b>	76	71	63	58	55	50	<b>31</b>	77	74	64	59	57	53	<b>34</b>
	550	0.10	72	64	56	54	49	41	<b>26</b>	75	69	61	57	53	48	<b>30</b>	76	73	64	59	56	51	<b>33</b>	78	75	65	60	58	54	<b>36</b>
	600	0.12	72	65	57	55	49	42	<b>26</b>	75	70	62	58	54	48	<b>30</b>	77	74	64	60	57	52	<b>34</b>	78	76	66	61	59	55	<b>37</b>
	650	0.15	72	66	58	56	50	43	<b>26</b>	75	72	63	59	55	49	<b>32</b>	77	75	65	61	58	53	<b>36</b>	79	77	67	62	59	55	<b>38</b>
8	600	0.02	73	63	56	52	48	40	<b>28</b>	76	69	60	55	52	47	<b>31</b>	78	72	62	56	55	51	<b>34</b>	79	75	64	57	57	54	<b>36</b>
	650	0.02	74	64	57	53	48	41	<b>29</b>	77	70	61	56	53	47	<b>33</b>	78	73	63	57	55	51	<b>34</b>	79	76	65	58	57	54	<b>37</b>
	700	0.02	74	65	57	54	49	41	<b>29</b>	77	71	61	56	53	48	<b>33</b>	79	74	64	58	56	52	<b>35</b>	80	77	65	59	58	55	<b>38</b>
	750	0.02	75	66	58	54	49	42	<b>28</b>	77	72	62	57	54	48	<b>31</b>	79	75	64	58	56	52	<b>34</b>	80	78	66	60	58	55	<b>38</b>
	800	0.03	75	67	58	55	50	42	<b>28</b>	78	73	63	58	54	49	<b>32</b>	79	76	65	59	57	53	<b>36</b>	81	78	67	60	59	56	<b>38</b>
9	800	0.04	73	61	57	53	49	43	<b>25</b>	76	66	61	57	54	49	<b>29</b>	77	69	63	59	57	53	<b>30</b>	78	71	65	60	59	56	<b>31</b>
	850	0.04	74	62	57	53	49	43	<b>26</b>	76	67	61	57	54	50	<b>29</b>	78	70	63	59	57	54	<b>31</b>	79	72	65	61	59	56	<b>33</b>
	900	0.05	74	63	58	54	50	43	<b>26</b>	77	68	62	57	55	50	<b>30</b>	79	70	64	59	57	54	<b>33</b>	80	72	66	61	59	57	<b>34</b>
	950	0.06	75	63	58	54	50	44	<b>28</b>	78	68	62	58	55	50	<b>31</b>	79	71	64	60	58	54	<b>33</b>	80	73	66	61	60	57	<b>34</b>
	1000	0.06	75	64	59	55	50	44	<b>28</b>	78	69	62	58	55	50	<b>31</b>	80	72	65	60	58	54	<b>34</b>	81	74	66	62	60	57	<b>35</b>
10	900	0.01	75	62	58	55	50	44	<b>28</b>	77	67	62	59	55	50	<b>30</b>	78	70	65	61	58	54	<b>31</b>	79	73	67	63	61	57	<b>33</b>
	1000	0.01	76	63	59	56	50	44	<b>29</b>	78	68	63	60	56	51	<b>31</b>	79	71	66	62	59	55	<b>33</b>	80	74	68	64	61	57	<b>34</b>
	1100	0.01	76	63	59	57	51	45	<b>29</b>	79	69	64	61	56	51	<b>33</b>	80	72	66	63	60	55	<b>34</b>	81	74	68	65	62	58	<b>35</b>
	1200	0.01	77	64	60	57	52	45	<b>30</b>	79	70	64	61	57	52	<b>33</b>	81	73	67	64	60	56	<b>35</b>	82	75	69	66	63	59	<b>36</b>
	1300	0.01	78	65	61	58	52	46	<b>31</b>	80	70	65	62	58	53	<b>34</b>	81	74	68	65	61	56	<b>35</b>	82	76	69	66	63	59	<b>36</b>
12	1200	0.01	73	64	60	55	53	46	<b>25</b>	76	69	64	59	57	52	<b>29</b>	78	72	66	62	60	56	<b>31</b>	79	74	68	64	62	59	<b>33</b>
	1400	0.01	74	65	62	56	54	47	<b>26</b>	77	71	66	61	59	53	<b>30</b>	79	74	68	63	61	57	<b>33</b>	80	76	70	65	63	60	<b>36</b>
	1600	0.01	75	66	63	57	55	48	<b>28</b>	78	72	67	62	59	55	<b>31</b>	80	75	69	64	62	58	<b>34</b>	81	77	71	66	64	61	<b>37</b>
	1800	0.01	76	68	64	58	55	49	<b>29</b>	79	73	68	63	60	56	<b>33</b>	80	76	71	65	63	59	<b>36</b>	81	78	72	67	65	62	<b>38</b>
	2000	0.01	76	69	65	59	56	50	<b>29</b>	79	74	69	64	61	56	<b>33</b>	81	77	72	66	64	60	<b>37</b>	82	79	73	68	66	63	<b>39</b>
14	1500	0.02	69	57	56	53	50	44	<b>20</b>	72	63	56	59	57	53	<b>24</b>	74	67	56	62	62	59	<b>26</b>	76	69	56	65	65	62	<b>29</b>
	1800	0.03	70	59	58	53	50	44	<b>21</b>	73	65	58	59	58	53	<b>25</b>	75	68	58	63	62	59	<b>28</b>	77	71	58	65	65	63	<b>30</b>
	2100	0.04	71	60	59	54	51	44	<b>22</b>	74	66	59	60	58	54	<b>26</b>	76	69	59	63	63	59	<b>29</b>	78	72	59	66	66	63	<b>31</b>
	2400	0.05	72	61	60	54	51	44	<b>24</b>	75	67	60	60	59	54	<b>28</b>	77	70	60	64	63	59	<b>30</b>	78	73	60	66	66	63	<b>32</b>
	2700	0.06	72	62	61	54	51	45	<b>24</b>	76	68	61	61	59	54	<b>29</b>	78	71	61	64	63	60	<b>31</b>	79	74	61	67	66	63	<b>33</b>
16	2000	0.02	68	59	57	54	52	45	<b>19</b>	71	63	57	58	56	51	<b>22</b>	73	66	57	61	59	54	<b>25</b>	74	68	57	63	61	57	<b>26</b>
	2400	0.02	70	62	59	55	53	46	<b>21</b>	73	66	59	60	58	52	<b>25</b>	75	68	59	62	61	56	<b>28</b>	76	70	59	64	62	58	<b>29</b>
	2800	0.03	71	64	61	57	55	48	<b>22</b>	75	68	61	61	59	54	<b>28</b>	77	70	61	64	62	57	<b>30</b>	78	72	61	66	64	60	<b>31</b>
	3200	0.04	73	65	63	58	56	49	<b>25</b>	76	69	63	62	60	55	<b>29</b>	78	72	63	65	63	59	<b>31</b>	79	73	63	67	65	61	<b>33</b>
	3600	0.05	74	67	65	59	57	50	<b>26</b>	77	71	65	63	61	56	<b>30</b>	79	73	65	66	64	60								

PESV, AESV, DESV / HOT WATER COIL CAPACITY, MBH / 1- AND 2-ROW

	Rows	gpm	Head Loss	Airflow, cfm								
				50	100	150	200	250	300	350	400	450
Sizes 4-5-6	One-Row	1.0	0.48	3.7	5.6	6.8	7.8	8.6	9.3	9.9	10.4	10.8
		2.0	1.82	3.8	5.9	7.3	8.5	9.5	10.3	11.0	11.6	12.2
		4.0	6.98	3.9	6.1	7.6	8.9	10.0	10.9	11.7	12.4	13.1
		5.0	10.75	3.9	6.1	7.7	9.0	10.1	11.0	11.8	12.6	13.3
		Airside ΔPs		0.01	0.01	0.02	0.04	0.05	0.07	0.10	0.12	0.15
	Two-Row	1.0	0.12	5.0	8.1	10.3	12.0	13.4	14.5	15.5	16.3	17.0
		3.0	1.04	5.4	9.0	11.9	14.2	16.2	17.9	19.4	20.7	22.0
		5.0	2.80	5.4	9.2	12.2	14.7	16.9	18.8	20.5	22.0	23.4
		7.0	5.38	5.5	9.3	12.4	15.0	17.3	19.2	21.0	22.6	24.1
		Airside ΔPs		0.01	0.03	0.05	0.08	0.12	0.16	0.21	0.26	0.32
Sizes 7-8	One-Row	1.0	0.64	6.2	8.9	10.7	12.1	13.1	14.0	14.7	15.3	15.9
		2.0	2.46	6.6	9.7	11.8	13.5	14.8	16.0	16.9	17.8	18.5
		3.0	5.38	6.7	10.0	12.3	14.1	15.5	16.8	17.9	18.8	19.7
		4.0	9.39	6.8	10.1	12.5	14.4	15.9	17.2	18.4	19.4	20.3
		Airside ΔPs		0.01	0.02	0.05	0.07	0.11	0.15	0.19	0.24	0.30
	Two-Row	1.0	0.17	8.8	13.4	16.3	18.5	20.2	21.5	22.6	23.6	24.4
		3.0	1.40	9.7	15.6	20.0	23.4	26.3	28.6	30.7	32.5	34.1
		5.0	3.77	9.9	16.2	21.0	24.8	28.0	30.8	33.2	35.3	37.2
		7.0	7.24	10.0	16.5	21.4	25.5	28.8	31.8	34.4	36.7	38.8
		Airside ΔPs		0.02	0.05	0.10	0.16	0.23	0.32	0.41	0.51	0.62
Sizes 9-10	One-Row	2.0	0.41	11.0	13.5	15.4	17.0	18.3	19.5	20.5	21.3	22.1
		3.0	0.90	11.4	14.1	16.3	18.1	19.6	20.9	22.0	23.0	23.9
		5.0	2.41	11.8	14.7	17.1	19.0	20.7	22.2	23.5	24.6	25.7
		6.0	3.43	11.9	14.9	17.3	19.3	21.0	22.5	23.9	25.1	26.2
		Airside ΔPs		0.01	0.02	0.04	0.06	0.08	0.10	0.13	0.15	0.19
	Two-Row	2.0	0.47	16.4	21.0	24.5	27.4	29.8	31.8	33.6	35.1	36.5
		4.0	1.84	17.6	23.0	27.3	31.0	34.2	36.9	39.4	41.5	43.5
		6.0	4.08	18.0	23.8	28.5	32.5	36.0	39.1	41.8	44.3	46.6
		8.0	5.00	18.3	24.2	29.1	33.3	37.0	40.3	43.2	45.9	48.3
		Airside ΔPs		0.03	0.05	0.09	0.12	0.17	0.22	0.27	0.33	0.40
Size 12	One-Row	2.0	0.54	15.5	19.8	22.9	25.2	27.1	28.7	30.1	31.2	32.3
		3.0	1.19	16.2	21.0	24.5	27.2	29.5	31.4	33.0	34.5	35.7
		5.0	3.18	16.9	22.1	26.0	29.1	31.7	34.0	35.9	37.6	39.2
		6.0	4.52	17.0	22.4	26.5	29.7	32.4	34.7	36.7	38.5	40.1
		Airside ΔPs		0.01	0.03	0.06	0.09	0.13	0.17	0.22	0.27	0.33
	Two-Row	2.0	0.55	23.2	30.8	36.2	40.2	43.5	46.1	48.3	50.2	51.9
		4.0	2.15	25.3	34.8	41.9	47.6	52.3	56.3	59.7	62.7	65.4
		6.0	4.75	26.1	36.4	44.3	50.7	56.1	60.8	64.8	68.4	71.6
		8.0	6.16	26.5	37.2	45.6	52.5	58.3	63.3	67.8	71.7	75.3
		Airside ΔPs		0.03	0.07	0.13	0.20	0.27	0.36	0.46	0.57	0.68

PESV, AESV, DESV / HOT WATER COIL CAPACITY, MBH / 1- AND 2-ROW

Redefine your comfort zone™ | www.titus-hvac.com

Size	Rows	gpm	Head Loss	Airflow, cfm								
				400	700	1000	1300	1600	1900	2200	2500	2800
Size 14	One-Row	2.0	0.43	20.4	26.3	30.3	33.2	35.5	27.4	39.0	40.4	41.5
		3.0	0.96	21.6	28.4	33.2	36.8	39.7	42.0	44.1	45.9	47.4
		5.0	2.63	22.7	30.5	36.0	40.3	43.8	47.8	49.3	51.6	53.6
		6.0	3.77	23.1	31.0	36.8	41.3	45.0	48.2	50.9	53.3	55.4
		Airside ΔPs		0.01	0.03	0.06	0.09	0.13	0.17	0.22	0.27	0.33
	Two-Row	2.0	0.39	30.1	40.3	47.0	51.8	55.5	58.5	60.9	62.9	64.7
		4.0	1.51	33.5	47.1	56.8	64.3	70.3	75.3	79.6	83.2	86.4
		6.0	3.36	34.9	49.9	61.1	69.9	77.2	83.3	88.6	93.2	97.3
		8.0	3.95	35.6	51.5	63.5	73.1	81.1	88.0	93.9	99.2	103.8
		Airside ΔPs		0.03	0.07	0.12	0.19	0.27	0.36	0.46	0.57	0.69
Size 16	One-Row	3.0	1.07	29.5	37.4	42.8	47.0	50.4	53.1	55.5	57.5	59.3
		5.0	2.92	31.4	40.6	47.2	52.3	56.5	60.1	63.1	65.8	68.2
		7.0	5.65	32.4	42.1	49.3	55.0	59.7	63.7	67.1	70.2	72.9
		9.0	6.48	32.9	43.1	50.6	56.6	61.6	65.9	69.6	72.9	75.9
		Airside ΔPs		0.02	0.04	0.07	0.10	0.14	0.19	0.24	0.30	0.36
	Two-Row	3.0	0.53	43.1	55.9	64.7	71.1	76.1	80.1	83.4	86.2	88.6
		5.0	1.46	47.0	63.1	74.6	83.5	90.7	96.6	101.6	105.9	109.7
		7.0	2.84	49.0	66.8	80.0	90.3	98.8	106.0	112.1	117.5	122.2
		9.0	2.54	50.2	69.0	83.3	94.6	104.1	112.1	119.0	125.1	130.5
		Airside ΔPs		0.04	0.08	0.14	0.22	0.30	0.40	0.51	0.63	0.76
Size 24 x 16	One-Row	3.0	1.31	35.3	49.4	58.3	64.7	69.6	73.5	76.8	79.6	82.0
		5.0	3.57	37.6	54.2	65.2	73.4	79.9	85.3	89.9	93.8	97.3
		7.0	6.89	38.7	56.5	68.7	77.9	85.4	91.6	96.9	101.5	105.6
		9.0	8.50	39.3	58.0	70.8	80.7	88.7	95.5	101.3	106.4	110.9
		Airside ΔPs		0.01	0.02	0.05	0.08	0.11	0.15	0.20	0.25	0.30
	Two-Row	3.0	0.59	48.8	70.9	84.3	93.4	100.1	105.3	109.4	112.8	115.7
		5.0	1.63	53.1	81.0	99.4	112.9	123.3	131.6	138.5	144.3	149.3
		7.0	3.17	55.2	86.2	107.6	123.8	136.6	147.1	155.9	163.5	170.0
		9.0	3.06	56.4	89.4	112.8	130.8	145.3	157.3	167.5	176.4	184.2
		Airside ΔPs		0.02	0.05	0.10	0.16	0.24	0.32	0.42	0.52	0.63

- All coil performance in accordance with AHRI 410-2001
- Heating capacities are in MBH
- Data based on 180°F entering water and 55°F entering air
- For temperature differentials other than 125°, multiply MBH by correction factors below
- Head loss is in feet of water
- Always supply water to lowest connection pipe to prevent air entrapment
- Air temperature rise = 927 x MBH/cfm
- Water temperature drop = 2.04 x MBH/gpm
- Connection size is 1/2" OD male solder for 1-row coil sizes 04-08. All other coils have 7/8" OD male solder.
- Coils are not intended for steam applications and are labeled for a maximum water temperature of 200°F
- Coils are tested for leakage at test pressure of 500 psi
- Water volumes less than those shown may result in laminar flow and reduced heating capacity. If possible reduce the number of coil rows to increase water velocity into turbulent range.

Correction Factors for Other Entering Conditions

ΔT	50	60	70	80	90	100	110	125	140	150
Factor	0.40	0.48	0.56	0.64	0.72	0.80	0.88	1.00	1.12	1.20

Note: Airside ΔPs reflects the air pressure drop of the hot water coil

PESV, AESV, DESV / HOT WATER COIL CAPACITY, MBH / 3- AND 4-ROW

Rows	gpm	Head Loss	Airflow, cfm									
			50	100	150	200	250	300	350	400	450	
Three-Row	2.0	0.70	6.1	10.8	14.4	17.5	20.0	22.3	24.2	25.9	27.4	
	3.0	1.54	6.1	11.0	14.9	18.2	21.0	23.5	25.7	27.6	29.4	
	5.0	4.14	6.2	11.1	15.2	18.8	21.8	24.6	27.0	29.2	31.3	
	6.0	5.90	6.2	11.2	15.3	18.9	22.1	24.9	27.4	29.7	31.8	
	Airside ΔPs		0.01	0.04	0.08	0.12	0.18	0.24	0.31	0.39	0.47	
Four-Row	3.0	1.11	6.5	11.9	16.5	20.5	23.9	26.8	29.5	34.8	34.0	
	4.0	1.95	6.5	12.1	16.8	20.9	24.5	27.7	30.6	33.1	35.5	
	6.0	4.33	6.5	12.2	17.1	21.4	25.2	25.6	31.7	34.5	37.1	
	8.0	5.42	6.5	12.2	17.2	21.6	25.5	29.1	32.3	35.3	38.0	
	Airside ΔPs		0.02	0.05	0.10	0.16	0.24	0.32	0.41	0.52	0.63	

Rows	gpm	Head Loss	Airflow, cfm								
			100	200	300	400	500	600	700	800	900
Three-Row	2.0	0.50	11.2	18.6	23.8	27.9	31.1	33.7	35.9	37.8	39.4
	4.0	1.95	11.6	19.8	26.0	31.1	35.3	38.8	41.9	44.7	47.1
	6.0	4.33	11.7	20.2	26.9	32.3	37.0	41.0	44.5	47.6	50.4
	8.0	5.42	11.7	20.4	27.3	33.0	37.9	42.1	45.9	49.2	52.2
Airside ΔPs		0.02	0.08	0.15	0.24	0.35	0.47	0.61	0.77	0.93	
Four-Row	4.0	1.40	12.4	22.1	29.6	35.0	40.9	45.3	49.1	52.4	55.3
	6.0	3.12	12.5	22.5	30.6	37.3	43.0	48.0	52.4	56.3	59.7
	8.0	3.53	12.6	22.7	31.1	38.1	44.2	49.5	54.2	58.4	62.2
	10.0	5.46	12.6	22.9	31.4	38.6	44.9	50.4	55.4	59.8	63.8
Airside ΔPs		0.03	0.10	0.20	0.32	0.47	0.63	0.82	1.02	1.25	

Rows	gpm	Head Loss	Airflow, cfm								
			200	300	400	500	600	700	800	900	1000
Three-Row	3.0	0.80	21.0	27.9	33.4	38.0	41.8	45.2	48.1	50.7	52.9
	5.0	2.19	21.6	29.2	35.5	40.8	45.5	49.6	53.2	56.5	59.4
	7.0	4.26	21.9	29.8	36.5	42.2	47.2	51.7	55.7	59.4	62.7
	9.0	4.49	22.1	30.2	37.0	43.0	48.3	53.0	57.3	61.2	64.7
Airside ΔPs		0.04	0.08	0.13	0.19	0.25	0.33	0.41	0.50	0.59	
Four-Row	4.0	1.16	23.5	32.2	39.4	45.6	50.9	55.5	59.6	63.2	66.5
	5.0	1.80	23.7	32.7	40.4	46.9	52.6	57.7	62.2	66.2	69.8
	8.0	2.75	24.1	33.6	41.8	49.0	55.4	61.2	66.4	71.1	75.5
	10.0	4.25	24.2	33.9	42.3	49.8	56.4	62.4	67.9	72.9	77.5
Airside ΔPs		0.05	0.11	0.17	0.25	0.34	0.43	0.54	0.66	0.79	

Rows	gpm	Head Loss	Airflow, cfm								
			300	500	700	900	1100	1300	1500	1700	1900
Three-Row	3.0	0.91	30.3	42.2	50.9	57.6	63.0	67.4	71.1	74.3	77.0
	4.0	1.61	31.0	44.0	53.8	61.5	67.8	73.1	77.6	81.5	84.9
	6.0	3.57	31.8	45.9	56.9	65.8	73.3	79.7	85.2	90.1	94.5
	8.0	4.32	32.2	46.9	58.5	68.2	76.3	83.4	89.6	95.1	100.0
Airside ΔPs		0.05	0.11	0.19	0.29	0.41	0.54	0.69	0.85	1.02	
Four-Row	4.5	1.63	34.6	50.5	62.9	72.7	80.8	87.6	93.4	98.4	102.8
	5.0	2.01	34.8	51.1	63.9	74.2	82.7	89.9	96.0	101.4	106.1
	7.0	2.88	35.1	52.6	66.5	78.0	87.7	96.1	103.4	109.8	115.6
	9.0	4.11	35.6	53.4	68.0	80.3	90.8	99.9	107.9	115.1	121.5
Airside ΔPs		0.06	0.15	0.26	0.39	0.55	0.72	0.92	1.13	1.36	

PESV, AESV, DESV / HOT WATER COIL CAPACITY, MBH / 3- AND 4-ROW

Redefine your comfort zone™ | www.titus-hvac.com

Size	Rows	gpm	Head Loss	Airflow, cfm								
				400	700	1000	1300	1600	1900	2200	2500	2800
Size 14	Three-Row	4.0	1.30	41.3	59.8	73.0	83.0	90.9	97.3	102.7	107.3	111.1
		5.0	2.01	42.1	61.8	76.3	87.6	96.6	104.1	110.4	115.8	120.5
		6.0	2.88	42.6	63.2	78.6	90.8	100.7	109.0	116.1	122.2	127.6
		8.0	3.27	43.3	65.0	81.7	95.2	106.3	115.8	124.0	131.2	137.5
		Airside ΔPs		0.04	0.10	0.19	0.29	0.41	0.54	0.69	0.86	1.04
	Four-Row	6.0	2.06	46.7	71.1	89.5	104.0	115.7	125.5	133.7	140.8	146.9
		7.0	2.79	47.1	72.2	91.6	107.1	119.8	130.4	139.5	147.4	154.2
		8.0	2.03	47.4	73.1	93.3	109.5	123.0	134.4	144.1	152.7	160.2
		10.0	3.15	47.8	74.4	95.6	113.0	127.7	140.2	151.1	160.7	169.2
		Airside ΔPs		0.05	0.14	0.25	0.38	0.54	0.72	0.93	1.15	1.39
Size 16	Three-Row	6.0	1.71	58.5	80.9	97.0	109.3	119.2	127.3	134.0	139.9	144.9
		8.0	1.51	60.1	84.4	102.5	116.7	128.3	138.0	146.2	153.4	159.6
		10.0	2.35	61.1	86.7	106.1	121.6	134.4	145.3	154.6	162.7	169.9
		12.0	3.36	61.8	88.2	108.6	125.1	138.8	150.5	160.7	169.6	177.5
		Airside ΔPs		0.06	0.14	0.24	0.37	0.51	0.68	0.86	1.06	1.28
	Four-Row	9.0	1.58	67.4	97.6	120.6	138.8	153.7	166.2	176.8	185.9	193.9
		10.0	1.95	67.9	98.8	122.6	141.6	157.3	170.5	181.8	191.6	200.2
		11.0	2.36	68.3	99.7	124.2	144.0	160.3	174.1	186.0	196.4	205.6
		12.0	2.80	68.6	100.5	125.6	146.0	162.9	177.3	189.8	200.7	210.3
		Airside ΔPs		0.08	0.18	0.32	0.49	0.68	0.90	1.15	1.42	1.71
Size 24 x 16	Three-Row	6.0	1.86	65.0	103.8	129.6	148.2	162.3	173.5	182.5	190.1	196.5
		8.0	1.76	66.4	108.6	138.0	160.0	177.3	191.2	202.8	212.6	221.1
		10.0	2.74	67.2	111.5	143.4	167.9	187.4	203.4	216.9	228.5	238.6
		12.0	3.92	67.8	113.6	147.2	173.4	194.7	212.3	227.3	240.3	251.6
		Airside ΔPs		0.03	0.09	0.17	0.27	0.40	0.54	0.70	0.88	1.07
	Four-Row	9.0	1.80	72.6	124.0	161.1	189.2	211.2	229.0	243.6	256.0	266.7
		10.0	2.22	73.0	125.5	164.1	193.6	217.1	236.2	252.1	265.6	277.2
		11.0	2.68	73.3	126.7	166.5	197.3	222.0	242.3	259.3	273.9	286.4
		12.0	3.18	73.5	127.7	168.6	200.5	226.3	247.6	265.6	281.1	294.5
		Airside ΔPs		0.04	0.12	0.23	0.37	0.53	0.72	0.93	1.17	1.42

- All coil performance in accordance with AHRI 410-2001
- Heating capacities are in MBH
- Data based on 180°F entering water and 55°F entering air
- For temperature differentials other than 125°, multiply MBH by correction factors below
- Head loss is in feet of water
- Always supply water to lowest connection pipe to prevent air entrapment
- Air temperature rise = 927 x MBH/cfm
- Water temperature drop = 2.04 x MBH/gpm
- Connection size is 1/2" OD male solder for 1-row coil sizes 04-08. All other coils have 7/8" OD male solder.
- Coils are not intended for steam applications and are labeled for a maximum water temperature of 200°F
- Coils are tested for leakage at test pressure of 500 psi
- Water volumes less than those shown may result in laminar flow and reduced heating capacity. If possible reduce the number of coil rows to increase water velocity into turbulent range.

Correction Factors for Other Entering Conditions

ΔT	50	60	70	80	90	100	110	125	140	150
Factor	0.40	0.48	0.56	0.64	0.72	0.80	0.88	1.00	1.12	1.20

Note: Airside ΔPs reflects the air pressure drop of the hot water coil