

## محصولات سرمایشی

نکته ۱: متر از فضای قابل سرمایش ذکر شده در جدول فوق، بر مبنای کاربری مسکونی و کانال کشی استاندارد می باشد.

نکته ۲: توصیه می گردد، قبل از خرید محصول با واحد مهندسی فروش (مشاوره انتخاب محصول) تماس حاصل شود.

| بهارساز                                                                          |                                                                                                         | هواساز                                                                            |                                                                                                         | پایمری<br>دور متغیر                                                                                     | کولر سلولزی فلزی                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                             |                                                                                                           | کولر سلولزی دور متغیر<br>پایمری                                                                   |                  | مقیاس<br>تفاوت به<br>یکدیگر<br>ممکن<br>است با<br>نسبت واقعی<br>متفاوت باشد. |        |        |              |           |                           |            |         |
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|  | <b>NEW</b><br><br>BLDC |  | <b>NEW</b><br><br>BLDC | <b>NEW</b><br><br>BLDC | <b>NEW</b><br><br>BLDC |  |  |  |  |  |  |  | <br>BLDC | <b>NEW</b><br><br>BLDC | <b>NEW</b><br> |                  |                                                                             |        |        |              |           |                           |            |         |
| گرمایش و سرمایش<br>کانال رفت و برگشت                                             |                                                                                                         |                                                                                   |                                                                                                         | کولر سلولزی آپارتمانی                                                                                   | سرمایش موضعی                                                                                            | غیر مستقیم -<br>دو مرحله ای                                                       |                                                                                   | سری صنعتی                                                                         |                                                                                   | سری بالازن                                                                         |                                                                                     | سری ترموستاتیک                                                                      |                                                                                             | سری اقتصادی                                                                                               |                                                                                                   | سرمایش فضای کوچک |                                                                             | A+++   | A+++   | A++          | فن اکسیال |                           |            |         |
| GM0680                                                                           | GM0725                                                                                                  | EHF5000<br>ایستاده                                                                | EHC5000<br>سقفی                                                                                         | —                                                                                                       | AC2000B                                                                                                 | IDC 0450 B                                                                        |                                                                                   | EC2500                                                                            | EC1800                                                                            | EC1100T                                                                            |                                                                                     | VC0600                                                                              | VC0380                                                                                      | EC0700                                                                                                    | EC0550                                                                                            | EC0710           |                                                                             | EC0570 | EC0350 | EC0280       | EC0750 B  | EC 0750 PB<br>EC 0750 PB+ | EC 0550 PB | AC1200P |
| تک فاز                                                                           |                                                                                                         |                                                                                   |                                                                                                         |                                                                                                         |                                                                                                         | سه فاز                                                                            |                                                                                   |                                                                                   | تک فاز                                                                            |                                                                                    |                                                                                     |                                                                                     |                                                                                             |                                                                                                           |                                                                                                   |                  |                                                                             |        |        | مصرفی<br>برق |           |                           |            |         |
| 90 - 130 (m²)                                                                    | 450 - 900 (m³)                                                                                          | 100 - 150 (m²)                                                                    | 300 - 450 (m³)                                                                                          | 100 - 120 (m²)                                                                                          | 300 - 360 (m³)                                                                                          | 100 - 120 (m²)                                                                    | 300 - 360 (m³)                                                                    | 100 - 120 (m²)                                                                    | 📞                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                             |                                                                                                           |                                                                                                   |                  |                                                                             |        |        |              |           |                           |            |         |
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کاربری

## محصولات گرمایشی

**نکته ۱:** هیترهای مدل GH0825, GH0845 در صورت سفارش برای کاربری در مکان های با رطوبت بالا ، مانند گلخانه نیز قابل ارائه می باشد.

**نکته ۲:** کوره هوای مدل OF1500 / GF1560 و OF3000 / GF3060 قابلیت ارائه بصورت افقی یا عمودی با اتصال به کانال رفت و برگشت و مشعل دوگانه سوز را دارد.

| نسل اول     |         | نسل دوم     |         | نسل سوم            | هیتر                      | کوره هوای گرم |         |                            |         |                    |         |                    |         |         |         | بخاری کارگاهی |         | هیتر    | مقیاس تصاویر نسبت به یکدیگر ممکن است با نسبت واقعی متفاوت باشد. |          |             |         |             |         |              |            |                             |         |
|-------------|---------|-------------|---------|--------------------|---------------------------|---------------|---------|----------------------------|---------|--------------------|---------|--------------------|---------|---------|---------|---------------|---------|---------|-----------------------------------------------------------------|----------|-------------|---------|-------------|---------|--------------|------------|-----------------------------|---------|
|             |         |             |         |                    |                           |               |         |                            |         |                    |         |                    |         |         |         |               |         |         |                                                                 |          |             |         |             |         |              |            |                             |         |
| نصب در داخل |         | نصب در داخل |         | دور متغیر دکوراتیو | محفظه احتراق بسته جت هیتر | نصب در داخل   |         | گرمایش موضعی فضای نیمه باز |         | گرمایش موضعی صنعتی |         | گرمایش موضعی صنعتی |         | تک فاز  | تک فاز  | سه فاز        |         |         | نصب در داخل (با کانال رفت و برگشت)                              |          | نصب در داخل |         | نصب در داخل |         | گرمایش موضعی |            | گرمایش با کانال رفت و برگشت |         |
| GH 0625     | GH 0640 | GH 0845     | GH 0825 | GH 0618            | GH 0846                   | GH 0860       | KH 0320 | DH 0150                    | GR 0030 | GR 0055            | GR 0095 | GR 0100            | GR 0200 | EH 0020 | EH 0045 | EH 0150       | OF 0700 | GF 0760 | GF1560AX                                                        | OF1500AX | OF 1500     | GF 1560 | OF 3000     | GF 3060 | GF 2560      | GF 2060 hi | GH 0660                     | GH 0660 |
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| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
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| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  | ✓       | ✓                  | ✓       |         |         |               | ✓       | ✓       | ✓                                                               | ✓        |             | ✓       | ✓           | ✓       | ✓            | ✓          | ✓                           | ✓       |
| ✓           | ✓       | ✓           | ✓       | ✓                  |                           |               |         | ✓                          | ✓       | ✓                  |         |                    |         |         |         |               |         |         |                                                                 |          |             |         |             |         |              |            |                             |         |