The current design includes the following

Timer: 7 parts
4 injection molded, 1 machined (lathe, <5 minutes), 2 magnets (exact magnet spec is not critical)

Patient manifold: 6 parts
4 injection molded, 2 die cut

The injection molded parts need a careful DFM / design for moldability, but should only require a single side action or screw insert at most. It is likely that non-cosmetic finish dies can be made in < 5 days (Protomold), and production after that can proceed at several thousand per day per die set.

Multiple die sets can be made, again with the same 5-7 day lead time.

The total cost of tooling would be < $5000 per part or $40000 per die set.

Multi-cavity tooling would increase production speed to > 20,000 per day

Assembly would take a few minutes of labor per set. Additionally, since most joints are either press-fit, snap fit or screwed in, this can be shipped as an unassembled kit.

Parts used off the shelf (if available) are the pressure gauge, the blender, the flow meter and the main flow control valve. If unavailable, injection molded replacements can readily be made.

Pressure gauge: 6 parts
5 injection molded, 1 spring

Flow meter: 2 parts, injection molded

Blender: 1 part, injection molded

Flow control valve: 3 parts, injection molded